SCATTERING CHARACTERISTICS OF HOMOGENEOUS AND INHOMOGENEOUS PARTICLES: SCATTERING IN THE VISIBLE AND NEAR INFRARED

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13. ABSTRACT

Data are presented that give the absorption and extinction efficiencies for both homogeneous spherical aerosol particles and inhomogeneous spherical shell aerosol particles as a function of the size parameter $x = 2\pi r/\lambda$. The data giving the scattering properties of aerosols were computed with machine procedures using Mie theory. Calculations were run to investigate the effect of the atmospheric humidity on the macroscopic scattering properties of aerosols for visible and near infrared light. Data are also presented that give scattering, absorption, and extinction coefficients and the phase matrix for visible and infrared light scattering with tropospheric, stratospheric, and fog particles.

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Fog Particle Scattering						

PREFACE

This report is Supplement No. 1 to the Final Report (Part I) under Contract No. F19628-73-C-0130. This report presents the results of computations of cross sections and angular scattering data for homogeneous and inhomogeneous particles using Mie theory. This report gives the results of Mie calculations for single particles as well as macroscopic scattering data for different aerosol size distributions in the visible and near infrared.

Supplement No. 2 of the Final Report (Part I) tabulates scattering data for different types of aerosol particles in the infrared using a $r^{-4.5}$ size distribution.

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I. INTRODUCTION

Light transport in the atmosphere is remarkably influenced by aerosol particles. The optical effects of aerosols depend upon their physical structure, their chemical composition (index of refraction), their size distribution and concentration. The dependence of the sky intensity and its degree of polarization on turbidity and the size distribution of aerosol particles has been shown by numerous authors, Refs. 1 and 2 are excellent examples.

The interaction of light with aerosols may be computed by Mie theory if one considers the aerosols as spherical particles. Although this may not be true for a single particle, it may be assumed that the aerosol particles are randomly distributed; the assumption of aerosol particles being spheres is generally accepted. Mie's theory (Ref. 3) originally assumed homogeneous particles and was extended later on to particles of concentric spheres (Refs. 4 and 5) and to particles with the index of refraction varying continuously with the radial distance from the particle center (Ref. 6). The scattering properties of homogeneous aerosols and of particulates consisting of two concentric spheres are of utmost importance for the atmosphere. Currently, there exist four RRA programs that compute scattering data for spherical particles. These programs, designated as MIE-2, MIE-3, MIE-4, and MIE-5, compute cross sections and angular scattering data for homogeneous particles and "two-layer particles" consisting of a spherical kernel and a spherical shell of different material. All four versions of the Mie programs allow for integrating microscopic data over a given size distribution. The programs are based on the fundamental theory outlined by MIE (Ref. 3), Deirmendjian (Ref. 7), Aden and Kerker (Ref. 4) and Fenn and Oser (Ref. 8). A detailed description of the codes is given in Ref. 9. In addition to these four programs, a new program, designated as MIE-6, has been

written in order to compute scattering functions by combining the scattering functions for different size distributions and for different indices of refraction.

Sample calculations with these programs are given in this report for inhomogeneous particles (Sections II and III), aerosol size distribution in the troposphere (Section IV) and stratosphere (Section V), and fog particles (Section VI).

II. EFFICIENCY FACTORS FOR HOMOGENEOUS AND INHOMOGENEOUS PARTICLES

The MIE-5 program was used for calculations of the efficiency factors (see Ref. 9 for definition) for particles of different physical and chemical composition. The results are presented in Figs. 1 through 10 as function of the size parameter, $x = 2\pi r/\lambda$, where r is the particle radius and λ the wavelength of the radiation incident on the particle. In the graphs, the indices of refraction of the inner material (kernel) of the particles are designated by MI and the refractive indices of the shell material by MS.

Some of the indices of refraction chosen for the computations are based upon wavelength-dependent measurements of the real and imaginary part of the refractive index for aerosol particles taken by Hänel (Ref. 10) and Fischer (Ref. 11). The index of refraction for "average aerosol in summer 1966 of Mainz, Germany" is given in Ref. 12 as $1.68 - 0.040i$ for 0.3μ wavelength light and as $1.61 - 0.072i$ for $\lambda = 1.0\mu$. Figure 1 shows the well-known shape of the curves giving the efficiency factors of homogeneous particles as function of the size parameter (see Ref. 13, for example) with peak values of the efficiency factors for extinction occurring for size parameters between 1 and 10 and with a limiting value of 2 for large particles. In the example given, the efficiency factor for absorption peaks at $x \simeq 20$ for $m = 1.68 - 0.04i$ and $\lambda = 0.3\mu$ and at $x \simeq 7$ for $m = 1.61 - 0.072i$ and $\lambda = 1.0\mu$ where the peak values are slightly higher than 1. The refractive indices used for the computations given in Fig. 1 are for dry aerosol. In order to describe realistic conditions, the growth of the aerosol particles with the relative humidity and the related changes of the index of refraction are of special interest. The ratio of the particle radius at a given humidity f to that at $f = 0$ for "Mainz aerosol" is given by Hänel (Ref. 14) to be

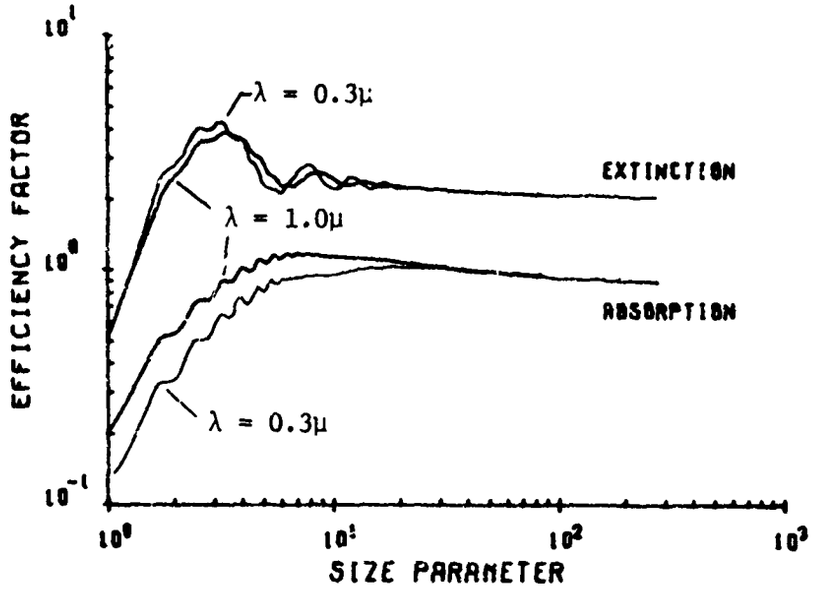

Fig. 1. Efficiency Factors for Dry Aerosols (MI = MS = 1.680 - 0.040I for $\lambda = 0.3\mu$ and MI = MS = 1.610 - 0.072I for $\lambda = 1.0\mu$

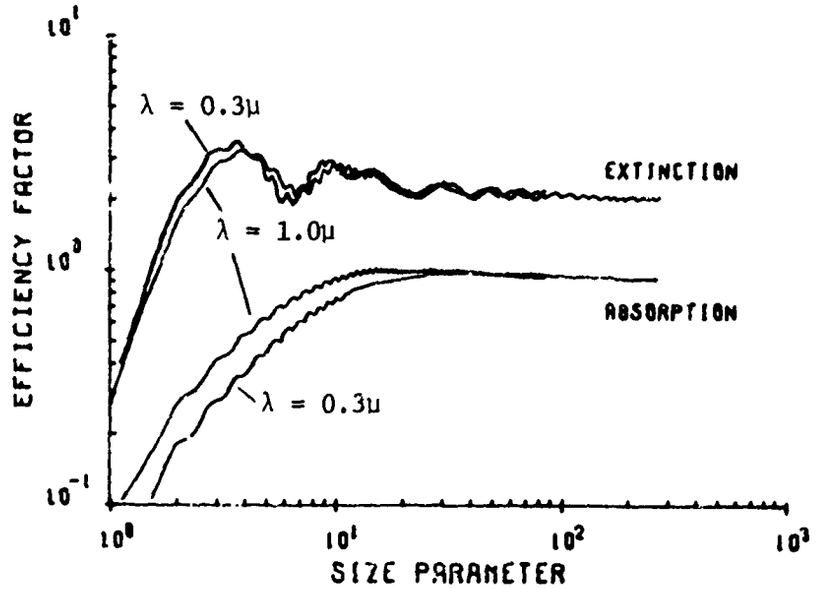

Fig. 2. Efficiency Factors for Inhomogeneous Aerosol Particles at a Relative Humidity of 75% (MI = 1.680 - 0.040I and MS = 1.358 - 0.000I for $\lambda = 0.3\mu$ and MI = 1.610 - 0.072I and MS = 1.324 - 0.000I for $\lambda = 1.0\mu$)

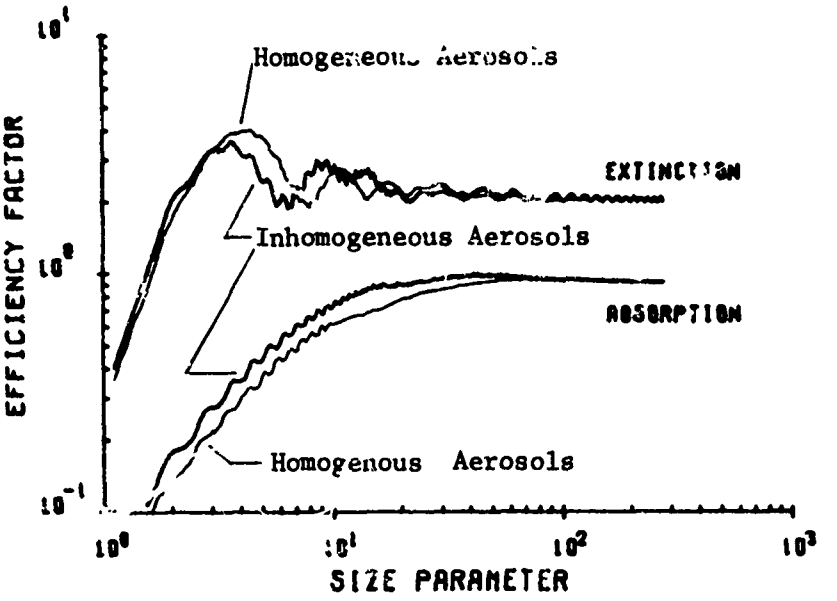

Fig. 3. Efficiency Factors for Homogeneous and Inhomogeneous Aerosol Particles at a Relative Humidity of 75%: λ=0.3μ (MI=MS=1.489 - 0.016I for Homogeneous Aerosols and MI=1.680 - 0.040I and MS=1.358 - 0.000I for Inhomogeneous Aerosols)

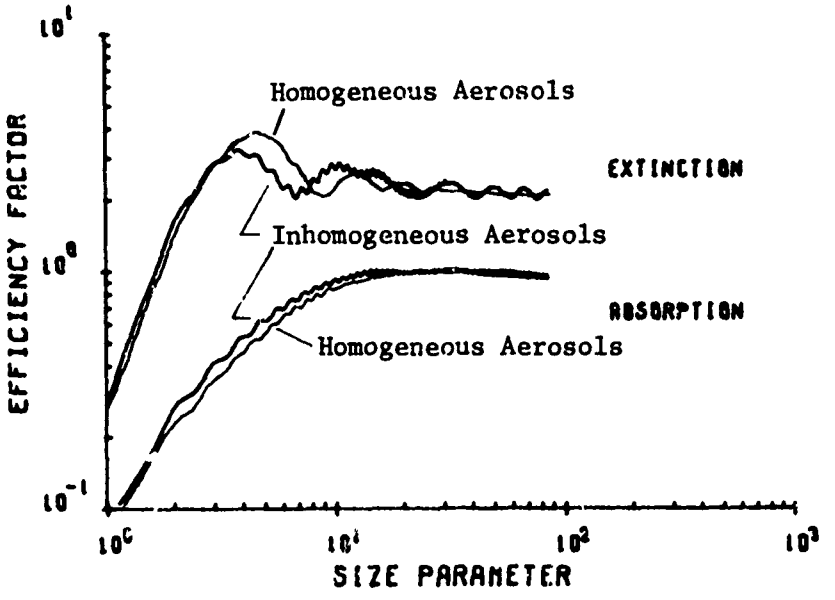

Fig. 4. Efficiency Factors for Homogeneous and Inhomogeneous Aerosol Particles at a Relative Humidity of 75%: λ=1.0μ (MI=MS=1.441 - 0.029I for Homogeneous Aerosols and MI=1.610 - 0.072I and MS=1.324 - 0.000I for Inhomogeneous Aerosols)

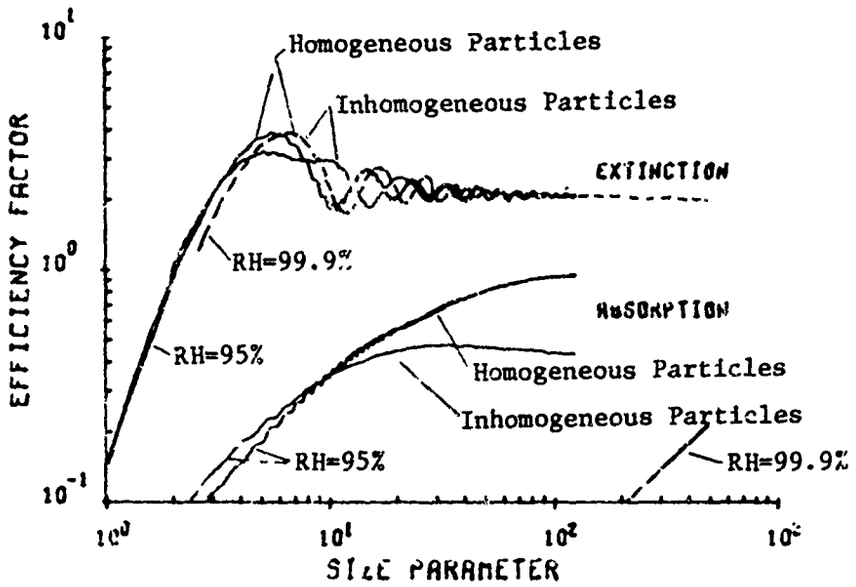

Fig. 5. Efficiency Factors for Aerosols at 95% and 99.9% Relative Humidity: λ=1.0μ (When RH=95%, MI=1.620 - 0.072I and MS=1.324-0.000I for Inhomogeneous Particles and MI=MS=1.360 - 0.009I for Homogeneous Particles. When RH=99.9%, MI=1.620 - 0.072I and MS=1.324 - 0.000I for Inhomogeneous Particles and MI=MS=1.325 - 0.000I for Homogeneous Particles)

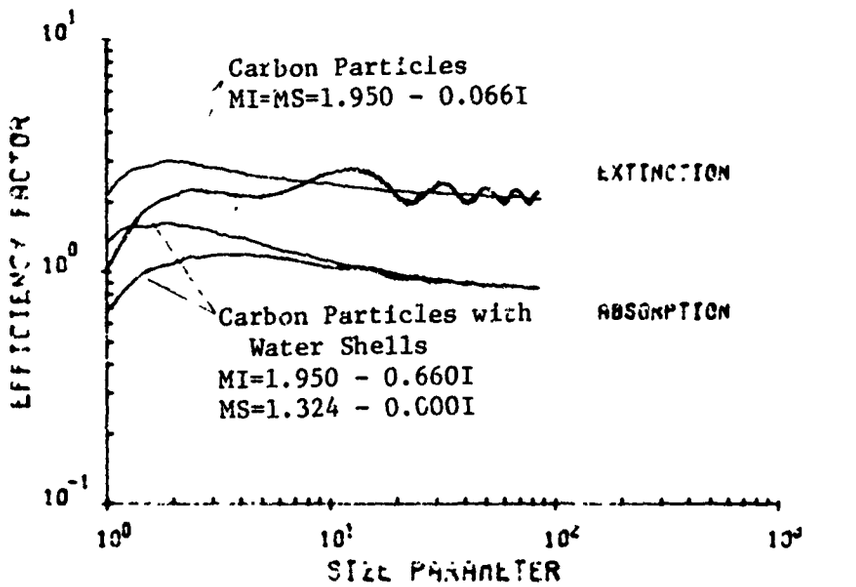

Fig. 6. Efficiency Factors for Carbon Particles With and Without Water Shells: λ = 1.0μ

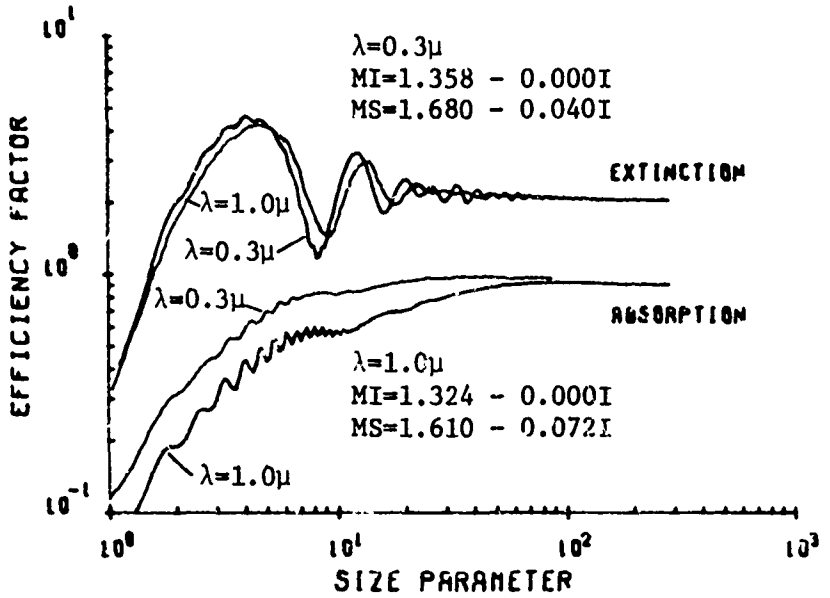

Fig. 7. Efficiency Factors for Water Particles Coated With Material of Higher Refractive Index: $r/r_i = 1.348$

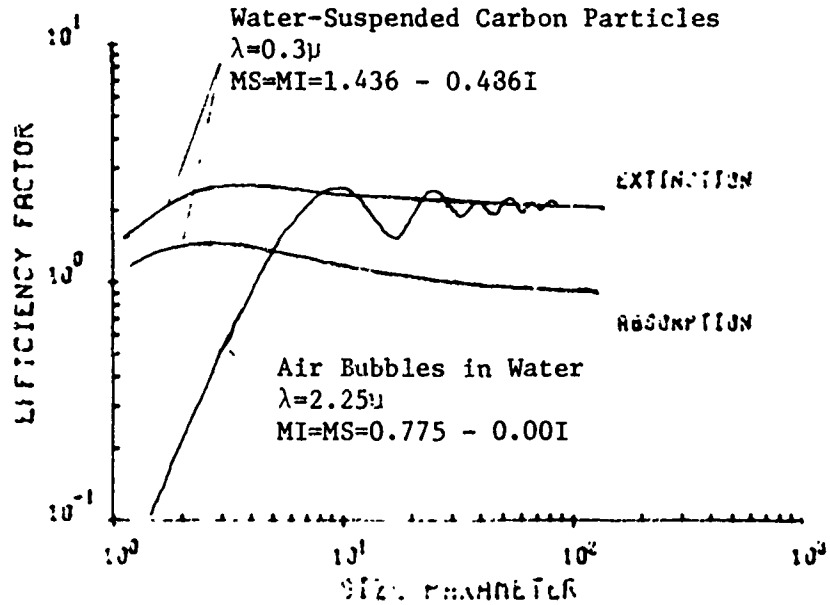

Fig. 8. Efficiency Factors for Air Bubbles in Water and Water-Suspended Carbon Particles

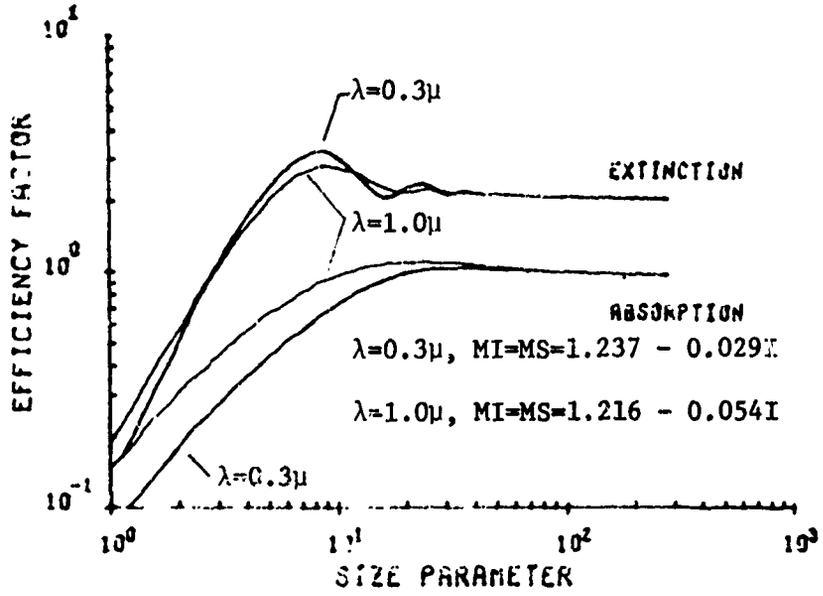

Fig. 9. Efficiency Factors for Hydrosol Particles

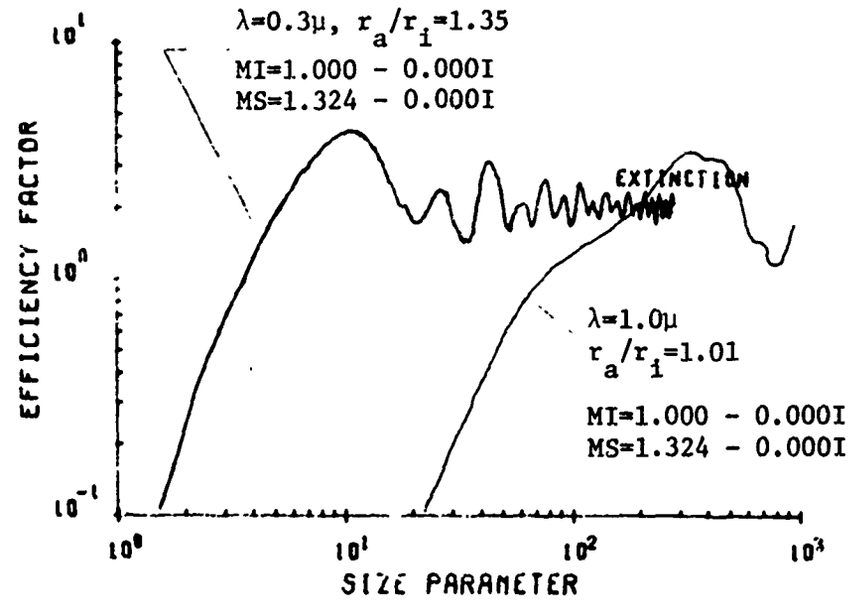

Fig. 10. Efficiency Factors for Water Bubbles

$r(f)/r_o$ = 1.348, 2.0 and ~ 8.0 for relative humidities of f = 75%, 95%, and 99.9%, respectively (the ratio $r(f)/r_o$ is somewhat dependent upon the particle size for high humidities which will not be considered in this study). The average index of refraction at humidity f is then given by

$$m_f = m_w + (m_o - m_w)\left(\frac{r(f)}{r_o}\right)^{-3} \quad , \tag{1}$$

where m_w and m_o denote the indices of refraction for water and dry aerosol. The efficiency factors for "Mainz aerosol" are given in Figs. 2, 3 and 4 for f = 75% and in Fig. 5 for relative humidities of 95% and 99.9%. For the data shown in Figs. 2, 3, 4 and 5 for inhomogeneous particles, the index of refraction of the kernel was taken as that of the dry aerosol; the shell material was assumed to be water with the ratio of the particle size to the size of the kernel chosen as $r(f)/r_o$. The data shown in Figs. 2, 3, 4 and 5 for homogeneous particles were computed using the average index of refraction given by Eq. (1). For f = 75%, differences in the calculations are seen mainly for size parameters smaller than ~ 30 with the efficiency factors for the homogeneous particles being smaller for absorption and larger for extinction than those calculated for the spherical-shell particles. For f = 95% (Fig. 5), some differences in the dependency of the efficiency factor for extinction upon the size parameter are seen for all size parameters $x > 3$. Homogeneous particles are seen in Fig. 5 to be more absorbing than shell particles, especially for large particles with the absorption efficiency factors for $x = 125.66$ calculated to be 0.95436 and 0.43785 for homogeneous and inhomogeneous particles, respectively. For f = 99.9% (Fig. 5), no apparent differences were found between the efficiency factor calculations for both homogeneous and inhomogeneous particles in the entire range $2.5133 \leq x \leq 113.0973$.

The efficiency factors for homogeneous carbon particles and for carbon particles surrounded by water shells with the ratio of the maximum and minimum shell radii taken to 1.35 are shown in Fig. 6. The graph shows the well-known smooth curves without the oscillations for the pure carbon particles (see also Ref. 8). The cu ves shown in Fig. 6 for the shell particles make it apparent that the observed oscillations in the extinction efficiency factor are caused by scattering and not by absorption.

Figure 7 gives the efficiency factors for water particles coated with a material of higher refractive index, with the ratio of the particle to the kernel size taken to 1.348. These data were previously reported in Ref. 15, pp. 90/91, with the indices of refraction erroneously given in reversed order.

For particles suspended in media other than gases, the effective index of refraction is obtained as the ratio of the refractive indices of the particle, m_p, and of the surrounding medium, m_m:

$$m_e = m_p/m_m = (\alpha_p - ik_p)/(\alpha_m - ik_m) =$$

$$= \frac{\alpha_p\alpha_m + k_pk_m - i(\alpha_m k_p - \alpha_p k_m)}{\alpha_m^2 + k_m^2} \quad . \qquad (2)$$

For the case of carbon particles in water and 0.3μ wavelength light, Eq. (2) leads to

$$m_e = \frac{1.95}{1.358} - \frac{0.66}{1.358}\,i = 1.436 - 0.486i \quad .$$

Examples of the scattering and extinction by such hydrosols are given in Figs. 8 and 9. Figure 8 refers to gas bubbles in water (the refractive index of 0.775 corresponds to a wavelength of approximately 2.25μ) and to carbon particles; Fig. 9 to "aerosol particles" in water. The indices of refraction shown in Figs. 8 and 9 are "effective" indices of refraction given by Eq. (2).

Figure 10 shows the application of the MIE-5 program to "water bubbles", i.e. water spheres having gaseous kernel. The ratio of the outer radius to the inner radius was taken to be 1.35 for $\lambda = 0.3\mu$ and 1.01 for $\lambda = 1.0\mu$.

III. SCATTERING PROPERTIES OF HUMID AEROSOL PARTICLES

The data in Section II revealed differences in the efficiency factors for homogeneous and inhomogeneous particles. In particular, it was found that there are differences in the efficiency factors for aerosol particles consisting of a spherical kernel of water-insoluble material and a spherical water shell and for homogeneous particles assuming an average index of refraction that is calculated by mixing rules. It is of special interest how macroscopic scattering data would compare when calculated with these two methods.

The data given in Figs. 2 and 3, corresponding to a relative humidity of 75%, were integrated over a power-law size distribution,

$$n(r) = 1.0638r^{-4} ,$$

with the limiting radii taken as $r_{min} = 0.05392\mu$ and $r_{max} = 13.48\mu$. For the spherical-shell model the ratio of the outer and inner radii was assumed to be 1.348. The ratio of the mass of the aerosol particle at x % relative humidity to the mass at 0.0% relative humidity is given by

$$\frac{m_x}{m_o} = 1 + \frac{\rho_w}{\rho o}\left[\left(\frac{r}{r_o}\right)^3 - 1\right]$$

where ρ_w and ρ_o are the densities of water ($\rho_w \approx 1$ g/cm^2) and the dry aerosol particles, respectively and r/r_o is the ratio of the outer to the inner radii of the spherical shell particles. For $r/r_o = 1.348$ and a relative humidity of 75%, the mass ratio is given by

$$\frac{m_{75\%}}{m_{0\%}} = 1 + \frac{1.449}{\rho_o} .$$

The density of dry aerosol particles, ρ_o, is assumed to be 3.0 g/cm^3 in Ref. 12 (Model 1). For the homogeneous model, Eq. (1) was used to calculate the index of refraction. The computations were made for 5 wavelengths ranging from 0.3μ to 1.0μ, the indices of refraction for dry aerosols were taken from Ref. 12 (model 1).

The calculated optical parameters from these calculations are listed in Table I. The tables lists the indices of refraction, the attenuation coefficients (σ_{EXT}, σ_{SCAT}, and σ_{ABS} denote the extinction, scattering, and absorption coefficients, respectively), the single scattering albedo, the average cosine of the scattering angle, $\overline{\cos\theta}$, and the maximum value of the degree of polarization, P_{max}. As expected from the results presented in Figs. 2 and 3, the absorption coefficients are higher for the spherical-shell particles when compared with those for the homogeneous particles with an average index of refraction. The scattering coefficients are found to be smaller for the spherical-shell particles. This produced somewhat smaller extinction coefficients and smaller values of the single scattering albedo. With the exception of 0.3μ wavelength light, the maximum degree of polarization is smaller for the inhomogeneous particles for all wavelengths being considered.

The normalized phase matrices are given for all wavelengths in Tables A1 through A5 for spherical-shell particles and in Tables A6 through A10 for homogeneous particles. The scattering and polarization functions for 0.3μ and 1.0μ wavelength light are presented in graphical form in Ref. 15 for a similar problem. It was found in Ref. 15 that larger differences in both computations occur for both the scattering function and the degree of polarization, especially for scattering angles larger than 100 degrees. The effects of inhomogenuity of the shell particles do not appear to be important for scattering angles less than about 4°. The scattering function for the homogeneous particles exceeds those for the shell particles for scattering angles between 4° and 40° by up to 20%. At scattering angles greater than about 45° the scattering function for shell particles exceeds that computed for homogeneous particles.

TABLE I. OPTICAL CONSTANTS FOR AEROSOLS AT 75% RELATIVE HUMIDITY

$n(r) = 1.0638r^{-4}$

λ	Particle Type	m_k	m_s	σ_{EXT} (cm^{-1})	σ_{SCAT} (cm^{-1})	σ_{ABS} (cm^{-1})	SSA	$\overline{\cos\theta}$	P_{max}
0.30μ	Shell part.*	1.6800-0.0400i	1.3580-0.0000i	1.17563-6	9.90221-7	1.85406-7	.84229	.63421	24.06
	Hom. part.**	1.4895-0.0163i	1.4895-0.0163i	1.19673-6	1.03954-6	1.57197-7	.86865	.70263	21.27
0.40μ	Shell part.	1.6400-0.0440i	1.3430-0.0000i	8.82591-7	7.31889-7	1.50702-7	.82925	.63022	33.98
	Hom. part.	1.4643-0.0180i	1.4643-0.0180i	8.94836-7	7.63582-7	1.31253-7	.85332	.69784	34.11
0.55μ	Shell part.	1.6200-0.0490i	1.3340-0.0000i	6.41578-7	5.20276-7	1.21302-7	.81093	.62906	38.84
	Hom. part.	1.4508-0.0208i	1.4508-0.0208i	6.50764-7	5.39715-7	1.11049-7	.82936	.69647	40.71
0.70μ	Shell part.	1.6100-0.0580i	1.3300-0.0000i	5.04974-7	3.95758-7	1.09217-7	.78372	.63172	41.76
	Hom. part.	1.4443-0.0237i	1.4443-0.0237i	5.12324-7	4.13354-7	9.89699-8	.80682	.69764	43.70
1.00μ	Shell part.	1.6100-0.0720i	1.3240-0.0000i	3.57611-7	2.65637-7	9.19741-8	.74281	.63268	44.55
	Hom. part.	1.4408-0.0294i	1.4408-0.0294i	3.63869-7	2.78765-7	8.51038-8	.76611	.69931	46.77

* Shell particle with outer radius/inner radius = 1.348

** Homogeneous particle, index of refraction computed with Equation (1)

Figure 11 presents plots of the ellipticity, tanβ, as function of the scattering angle. For the data in Fig. 11 it was assumed that the radiation incident on the particles is linearly polarized with the plane of polarization inclined to the reference plane by 45°. The ellipticity, which is dependent on the four elements of the phase matrix, is given by the equation

$$\tan\beta = \frac{-i_4}{\sqrt{0.25(i_1-i_2)^2 + i_3^2 + i_4^2} + \sqrt{0.25(i_1-i_2)^2 + i_3^2}} \qquad (3)$$

It was found that the ellipticity is more sensitive to the homogenuity of the particles than are the scattering function and the degree of polarization (Ref. 15). The data in Fig. 11 show a shift of the peak value of the ellipticity for 0.3μ wavelength light from 122° to 160° scattering angle when two-layer particles are assumed.

The data presented in Sections II and III show large differences in the scattering properties, especially in the polarization features, for "Mainz aerosol" at a relative humidity of 75% when homogeneous and inhomogeneous particles are assumed. The differences are expected to be even larger for a relative humidity of 95% (see Fig. 5). Since natural aerosols consist of roughly 50% water insoluble material (Refs. 16 and 17, the ratio of water-solubles to water insoluble materials shows large fluctuations and is highly dependent upon the origin of the particles), care has to be taken in interpreting data of the elliptical polarization (Ref. 18). Previous studies of the scattering properties of aerosol particles as function of the relative humidity, such as those reported in Ref. 12, should be extended to consider the scattering properties of water-insoluble materials as well as water solubles.

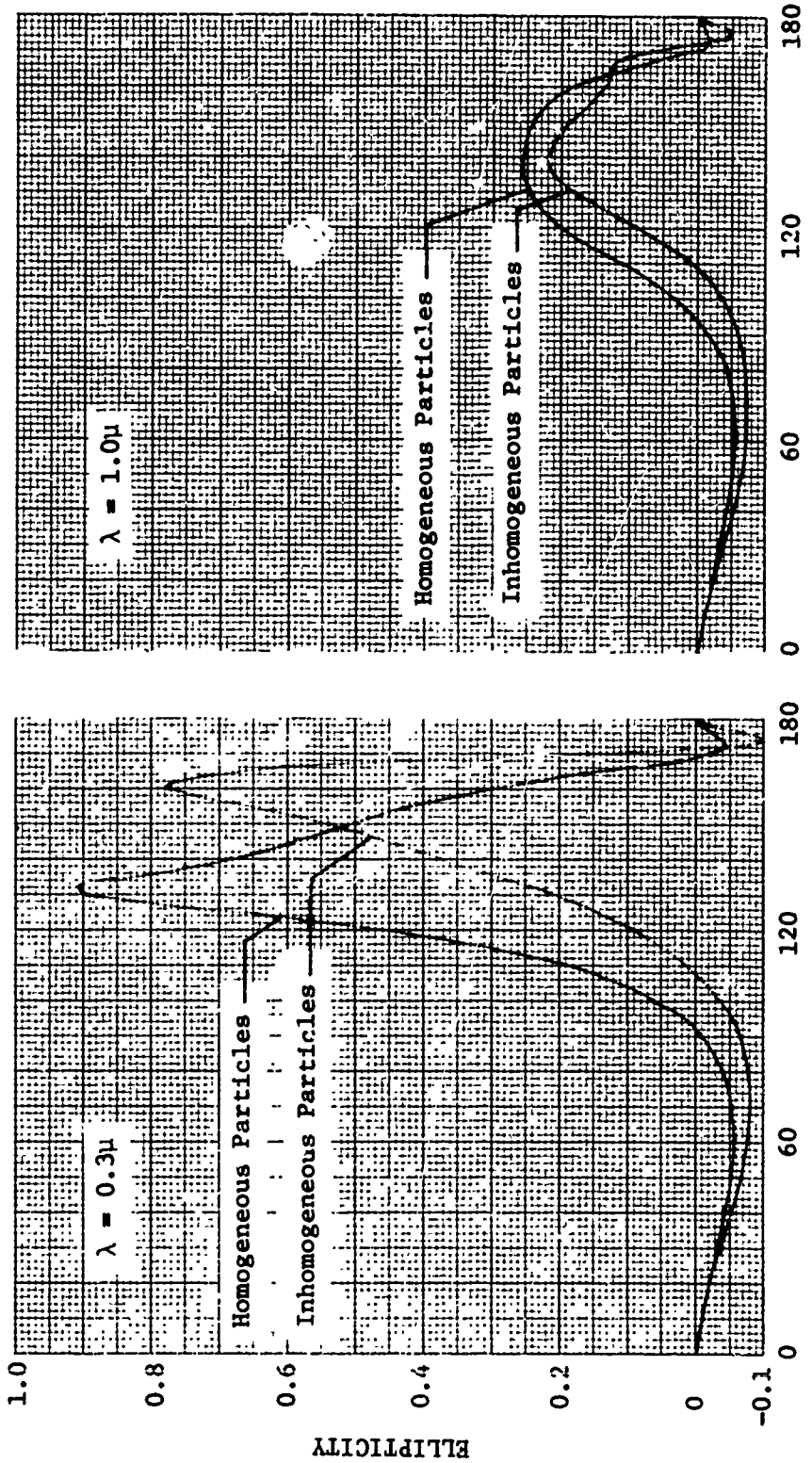

Fig. 11. Ellipticity for Aerosol Particles at 75% Relative Humidity

IV. SCATTERING PROPERTIES OF TROPOSPHERIC AEROSOL PARTICLES

The size distribution of continental aerosol particles in the troposphere may be classified into three different scattering types, designated in Ref. 19 as types A, B, and C. According to Ref. 19, different scattering types result mainly from different size distributions of the aerosol particles in the region $0.15\mu < r < 0.60\mu$, where r is the particle radius. Size distributions of scattering types A, B, and C are obtained through a concave, linear, and convex shape of the particle size distribution (on double logarithmic scale), resulting generally in a concave, linear and convex shape of the curve giving the relation between extinction coefficient and wavelength, and also resulting in increasing, constant, and decreasing values of the scattered intensity ratios, I(red)/I(blue), for decreasing scattering angles in the range from 50° to 10°. Data are given in this section for the angular scattering of aerosol particles having different size distributions. Though listed under a specific scattering type, some of the size distributions used are transitions between different scattering types (type AB, etc.).

4.1 Scattering Functions for Type B Aerosols

Type B aerosols are described by power-law size distributions. Scattering functions for aerosols with power-law size distributions are published by numerous authors, see for example Ref. 20. Most of these data, however, are obtained assuming that the absorption of light by aerosol particles may be neglected, an assumption which, according to earlier mentioned measurements by Fischer (Ref. 11), is very doubtful. Some model calculations were therefore accomplished for type B aerosols and indices of refraction of 1.50 - 0.01i and 1.55 - 0.01i (similar refractive indices are obtained for models 5 and 6 in Ref. 12 for relative humidities of $f \approx 50\%$).

For the calculations, the parameter ν in the size distribution

$$\frac{dN}{dr} = c \cdot r^{-\nu} \tag{4}$$

was taken as 4.0, 4.5, and 5.0. The parameter c was taken such that the particle number was constant for each size distribution at a particle radius of 0.55 micron. The lower limit of the particle radii was varied between 0.01μ and 0.12μ, the upper limit was taken to 10μ or 20μ. The total number of particles per unit volume is given by

$$N = c \int_{r_{min}}^{r_{max}} r^{-\nu} dr = \frac{c}{\nu-1} \left[r_{min}^{(-\nu+1)} - r_{max}^{(-\nu+1)} \right] . \tag{5}$$

A complete description of the models used is given in Table II. Values of the attenuation coefficients, as obtained from the MIE-2 program, are listed in Table III; the corresponding scattering functions are tabulated in Tables B1 through B28.

The scattering functions listed in Tables B1 through B28 were used to calculate the sky radiance in the solar almucantar for each of the models being considered; the computations were performed with the FLASH and BRITE Monte Carlo Programs (Ref. 15). The aerosol optical thickness was chosen such that the optical thickness would equal 0.23 for the size distribution with $\nu = 4.5$, $r_{min} = 0.06\mu m$ and for 0.55μ wavelength light. The aerosol optical thickness for other models and wavelengths is then given by multiplying 0.23 with the ratio of the extinction coefficient for that model and the one for 0.55μ, $\nu = 4.5$ and $r_{min} = 0.06\mu m$. The atmosphere was assumed to be homogeneous, the angle of incidence was taken to be 70°. The receiver azimuth angle, α, is then related to the scattering angle, ϕ, through

TABLE II. SIZE DISTRIBUTIONS FOR TYPE B AEROSOL MODELS

Model Number	Wavelength (μ)	Index of Refraction	Size Distribution					Table Number
			r_{min} (μ)	r_{max} (μ)	ν	c	N (cm^{-3})	
30402	0.30	1.50-0.01	0.06	10.0	4.0	7.688-4	1.187	B1
45402	0.45	1.50-0.01	0.06	10.0	4.0	7.688-4	1.187	B2
70402	0.70	1.50-0.01	0.06	10.0	4.0	7.688-4	1.187	B3
160402	1.60	1.50-0.01	0.06	10.0	4.0	7.688-4	1.187	B4
30451	0.30	1.50-0.01	0.01	10.0	4.5	5.714-4	10.62+3	B5
45451	0.45	1.50-0.01	0.01	10.0	4.5	5.714-4	10.62+3	B6
70451	0.70	1.50-0.01	0.01	10.0	4.5	5.714-4	10.62+3	B7
160451	1.60	1.50-0.01	0.01	10.0	4.5	5.714-4	10.62+3	B8
30452	0.30	1.50-0.01	0.06	10.0	4.5	5.714-4	8.1926	B9
45452	0.45	1.50-0.01	0.06	10.0	4.5	5.714-4	8.1926	B10
70452	0.70	1.50-0.01	0.06	10.0	4.5	5.714-4	8.1926	B11
160452	1.60	1.50-0.01	0.06	10.0	4.5	5.714-4	8.1926	B12
30453	0.30	1.50-0.01	0.12	10.0	4.5	5.714-4	0.5120	B13
45453	0.45	1.50-0.01	0.12	10.0	4.5	5.714-4	0.5120	B14
70453	0.70	1.50-0.01	0.12	10.0	4.5	5.714-4	0.5120	B15
160453	1.60	1.50-0.01	0.12	10.0	4.5	5.714-4	0.5120	B16
45454	0.45	1.55-0.01	0.06	20.0	4.5	5.714-4	8.1926	B21
55454	0.55	1.55-0.01	0.06	20.0	4.5	5.714-4	8.1926	B22
70454	0.70	1.55-0.01	0.06	20.0	4.5	5.714-4	8.1926	B23
160454	1.60	1.55-0.01	0.06	20.0	4.5	5.714-4	8.1926	B24
30502	0.30	1.50-0.01	0.06	10.0	5.0	4.247-4	3.0858	B17
45502	0.45	1.50-0.01	0.06	10.0	5.0	4.247-4	3.0858	B18
70502	0.70	1.50-0.01	0.06	10.0	5.0	4.247-4	3.0858	B19
160502	1.60	1.50-0.01	0.06	10.0	5.0	4.247-4	3.0858	B20
45504	0.45	1.55-0.01	0.06	20.0	5.0	4.247-4	3.0858	B25
55504	0.55	1.55-0.01	0.06	20.0	5.0	4.247-4	3.0858	B26
70504	0.70	1.55-0.01	0.06	20.0	5.0	4.247-4	3.0858	B27
160504	1.60	1.55-0.01	0.06	20.0	5.0	4.247-4	3.0858	B28

TABLE III. ATTENUATION DATA FOR TYPE B AEROSOLS

m = 1.50 - 0.01i

m	ν	$r_{min}(\mu)$	$\lambda(\mu)$	$\sigma_{SCAT}(cm^{-1})$	$\sigma_{EXT}(cm^{-1})$
1.50-0.01i	4.0	0.06	0.30	7.81-10	8.58-10
			0.45	5.52-10	6.07-10
			0.70	3.61-10	3.98-10
			1.60	1.57-10	1.74-10
1.50-0.01i	4.5	0.06	0.30	1.45-09	1.56-09
			0.45	8.75-10	9.44-10
			0.70	4.69-10	5.12-10
			1.60	1.38-10	1.54-10
1.50-0.01i	5.0	0.06	0.30	2.94-09	3.13-09
			0.45	1.54-09	1.65-09
			0.70	6.87-09	7.52-10
			1.60	1.37-10	1.60-10
1.50-0.01i	4.5	0.01	0.30	1.71-09	1.92-09
			0.45	9.29-10	1.06-09
			0.70	4.79-10	5.61-10
			1.60	1.38-10	1.71-10
1.50-0.01i	4.5	0.12	0.30	8.48-10	9.20-10
			0.45	6.83-10	7.34-10
			0.70	4.27-10	4.59-10
			1.60	1.36-10	1.49-10
1.55-0.01i	4.5	0.06	0.45	9.75-10	1.05-09
			0.55	7.41-10	7.98-10
			0.70	5.75-10	5.67-10
			1.60	1.55-10	1.71-10
1.55-0.01i	5.0	0.06	0.45	1.75-09	1.87-09
			0.55	1.23-09	1.32-09
			0.70	7.86-10	8.53-10
			1.60	1.57-10	1.80-10

$$\cos\phi = 0.1170 + 0.8830 \cdot \cos\alpha \quad . \qquad (6)$$

Some of the Monte Carlo calculated data have been reported in Ref. 15. Out of all of the models considered, it was found that the model with $\nu = 5.0$, $r_{min} = 0.06\mu m$ and an index of refraction of 1.55 - 0.01i (model 504) gives the best approximation to observed scattering functions and color ratios for type B aerosol (Ref. 19). The sky scattering functions for this model are plotted in Figs. 12 and 13 for single scattering (SS) and for total scattering assuming ground albedo values of A = 0.0, 0.2, and 1.0; the calculated aerosol scattering function (dotted line; normalized to give the same value as the sky scattering function for 0.1 degrees) is given for comparison. As one would expect, the sky scattering function is more affected by molecular and multiple scattering for 0.45μ wavelength light (Fig. 12) than it is for 1.60μ. The color ratios, I(0.7μ)/I(0.45μ) and I(1.6μ)/I(0.7μ), are given in Fig. 14.

Measurements in Europe under visual conditions usually produced by Type B aerosols (Ref. 21) gave results in the near IR that were not in agreement with the Mie calculations described in this report for aerosols with Type B size distributions. More recent measurements in Nova Scotia and Bedford, Massachusetts (Ref. 22) conform to the results presented here for $\lambda = 1.60\mu m$. A very low refractive index or a large influence of a possibly existing small deviation of the size distribution at $r \geq 1\mu m$ from the power law had to be assumed to explain the steep IR scattering functions in the European data. More model calculations are required to resolve the problem.

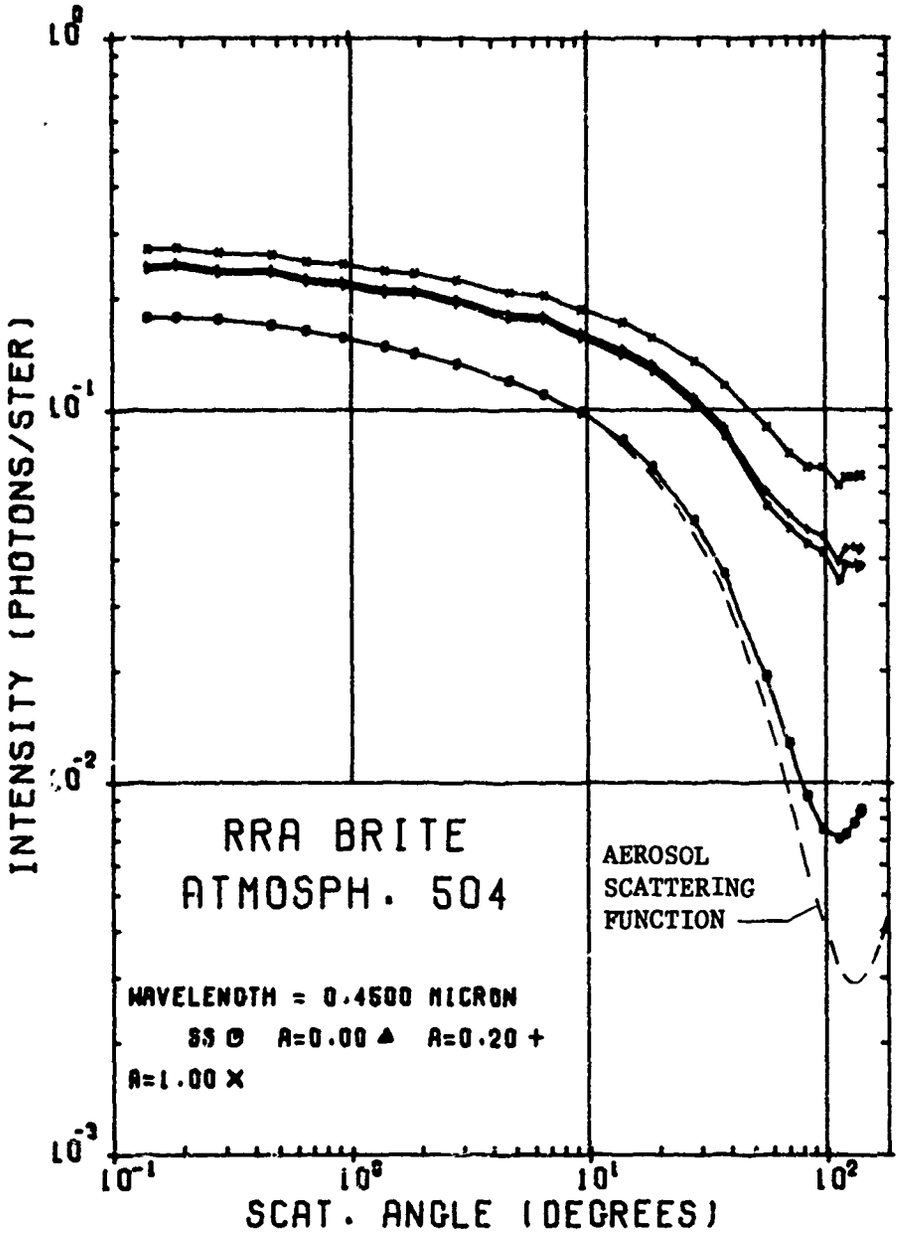

Fig. 12. Sky Scattering Function for r^{-5} Size Distribution and 0.45μ Wavelength Light; Index of Refraction = 1.55 - 0.01i

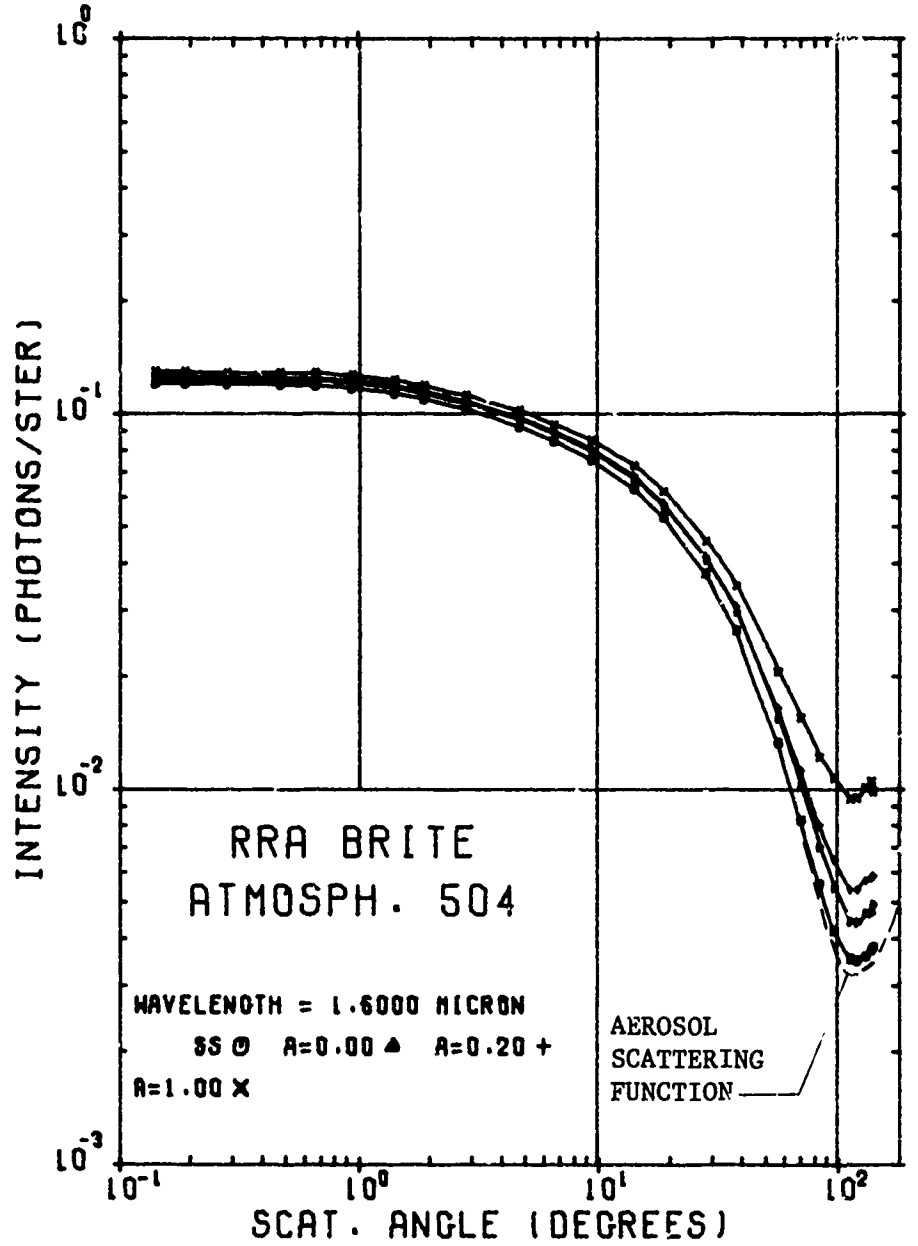

Fig. 13. Sky Scattering Function for r^{-5} Size Distribution and 1.60μ Wavelength Light; Index of Refraction = 1.55 - 0.01i

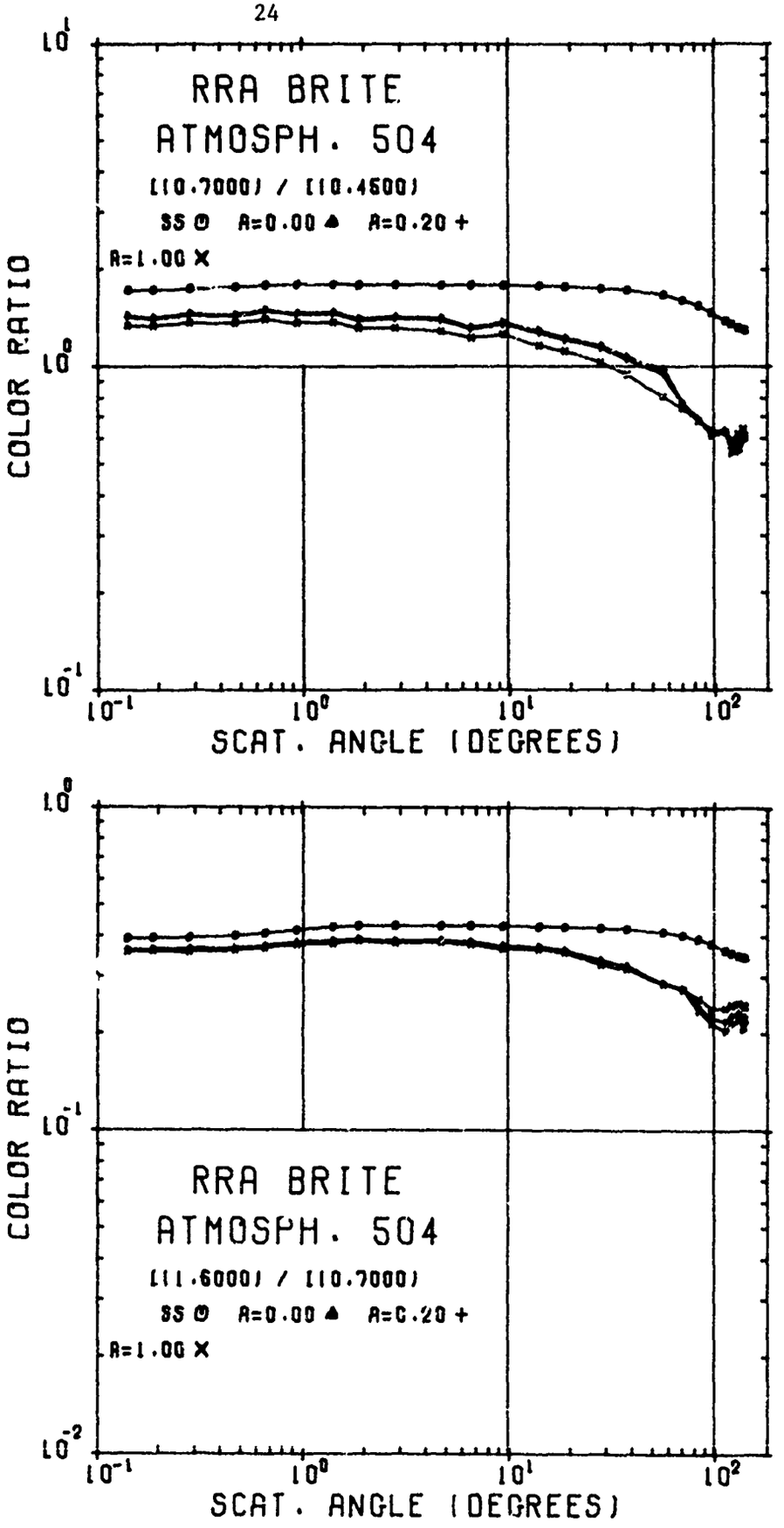

Fig. 14. Color Ratios in the Solar Almucantar for r^{-5} Size Distribution ($I(0.7\mu)/I(0.45\mu)$, upper graph; $I(1.60\mu)/I(0.7\mu)$, lower graph)

4.2 Scattering Functions for Type A Aerosols

Three models, denoted as models 200, 500, and 600, have been chosen as examples of the size distributions for aerosol particles of scattering type A. The size distributions used are tabulated in Table IV and plotted in Fig. 15. For the computations, a total of 600 radii was used for the integration over the particle size distribution. Two methods were used to interpolate the number density of a particle of radius r within the interval r_1 and r_2 (where r_1 and r_2 are the radii given in Table IV). For model 200, the interpolation was done using the formula

$$n(r) = n(r_1) + (n(r_1) - n(r_2))\frac{\log(r/r_1)}{\log(r_2/r_1)} \quad . \tag{7}$$

The number densities for models 500 and 600 were interpolated through

$$n(r) = n(r_1) \cdot \left(\frac{r}{r_1}\right)^{\alpha} \quad ,$$

where

$$\alpha = \frac{\log(n(r_2)/n(r_1))}{\log(r_2/r_1)} \quad . \tag{8}$$

The index of refraction for type A aerosols was taken to be 1.55 - 0.01i. Attenuation coefficients for type A aerosol particles as a function of wavelength are given in Table V, the scattering functions are listed in Tables C1 through C12. The scattering functions are plotted in Fig. 16 for all three models and for 0.7μ wavelength light, the color ratios (I(0.7μ)/I(0.45μ)) are given in Fig. 17 (the color ratios were obtained from the normalized phase-functions

TABLE IV. SIZE DISTRIBUTIONS FOR TYPE A AEROSOL MODELS

r [μ]	Model 200	Model 500	Model 600
.06	99.9	102.6	940.3
.07	72.2	74.1	582.5
.08	43.6	44.8	307.8
.09	30.4	31.2	190.6
.1	22.3	22.9	126.1
.15	2.88	2.95	10.8
.2	.640	0.657	1.81
.25	.223	0.229	0.505
.3	.091	0.090	0.171
.4	.025	0.028	3.53-2
.5	.011	0.012	1.23-2
.6	6.20-3	5.69-3	5.84-3
.7	3.93-3	2.75-3	3.17-3
.8	2.70-3	1.60-3	1.91-3
.9	1.97-3	1.01-3	1.23-3
1.	1.42-3	7.16-4	8.04-4
1.5	5.13-3	2.04-4	1.93-4
2.	2.77-3	8.99-5	7.82-5
2.5	1.79-4	4.83-5	4.04-5
3.	1.31-4	3.21-5	2.47-5
4.0	7.79-5	1.43-5	1.10-5
5.	5.09-5	7.71-6	5.75-6
6.	3.59-5	4.83-6	3.38-6
7.	2.66-5	3.21-6	2.15-6
8.	2.15-5	2.29-6	1.51-6
9.	1.79-5	1.84-6	1.12-6
10.	1.43-5	1.40-6	8.07-7
15.	7.22-6	4.00-7	2.72-7
20.	4.92-6	1.50-7	1.39-7

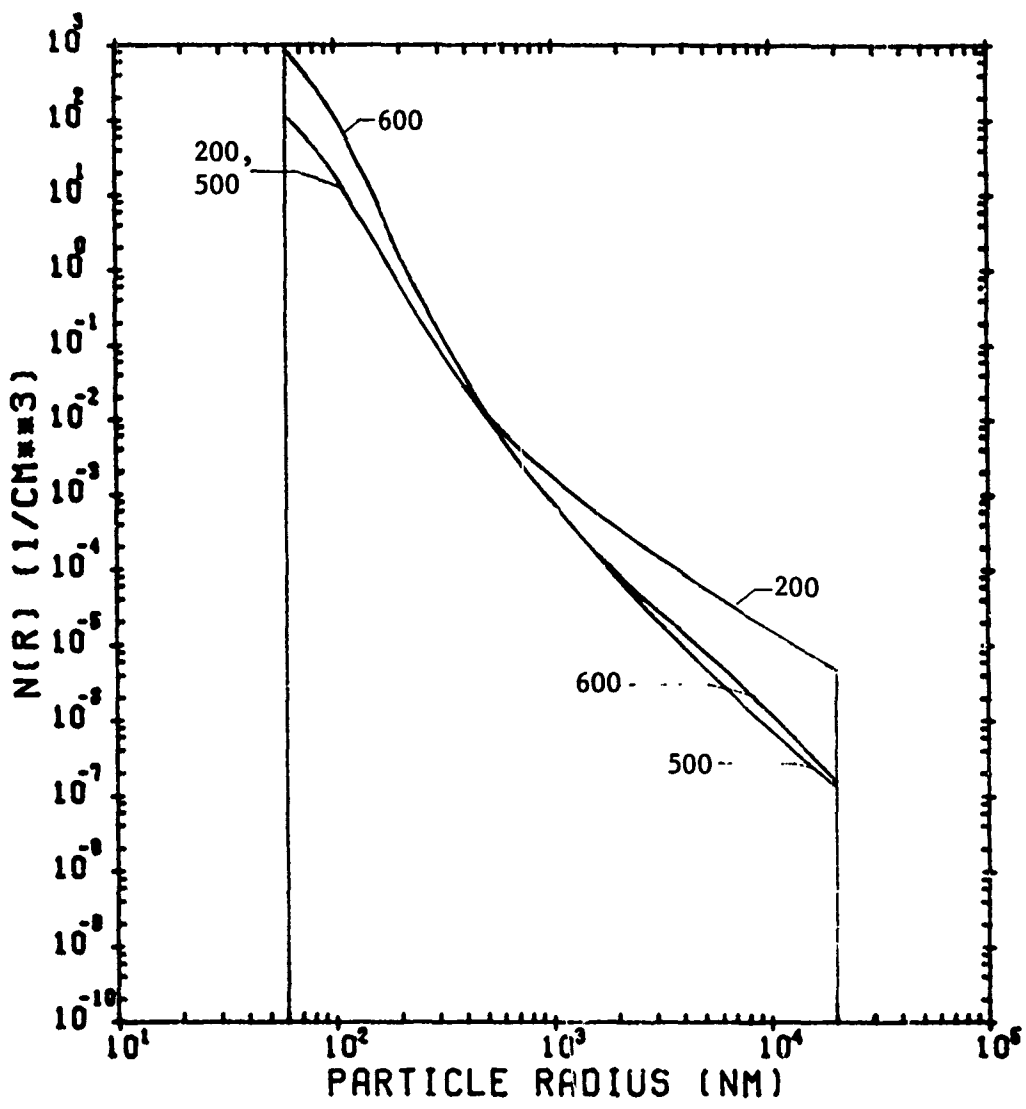

Fig. 15. Model Size Distributions for Type A Aerosols

TABLE V. ATTENUATION DATA FOR TYPE A AEROSOLS*

m = 1.55 - 0.01i

	λ = 0.45μ		λ = 0.55μ		λ = 0.70μ		λ = 1.60μ	
MODEL	σ_{SCAT}	σ_{EXT}	σ_{SCAT}	σ_{EXT}	σ_{SCAT}	σ_{EXT}	σ_{SCAT}	σ_{EXT}
200	2.12-9	3.01-9	1.85-9	2.71-9	1.63-9	2.46-9	1.47-9	2.17-9
500	1.00-9	1.14-9	7.70-10	8.93-10	5.70-10	6.78-10	2.77-10	3.47-10
600	3.34-9	3.62-9	2.17-9	2.39-9	1.27-9	1.44-9	2.98-10	3.78-10

* The scattering coefficients, σ_{SCAT}, and extinction coefficients, σ_{EXT}, are given in cm^{-1}.

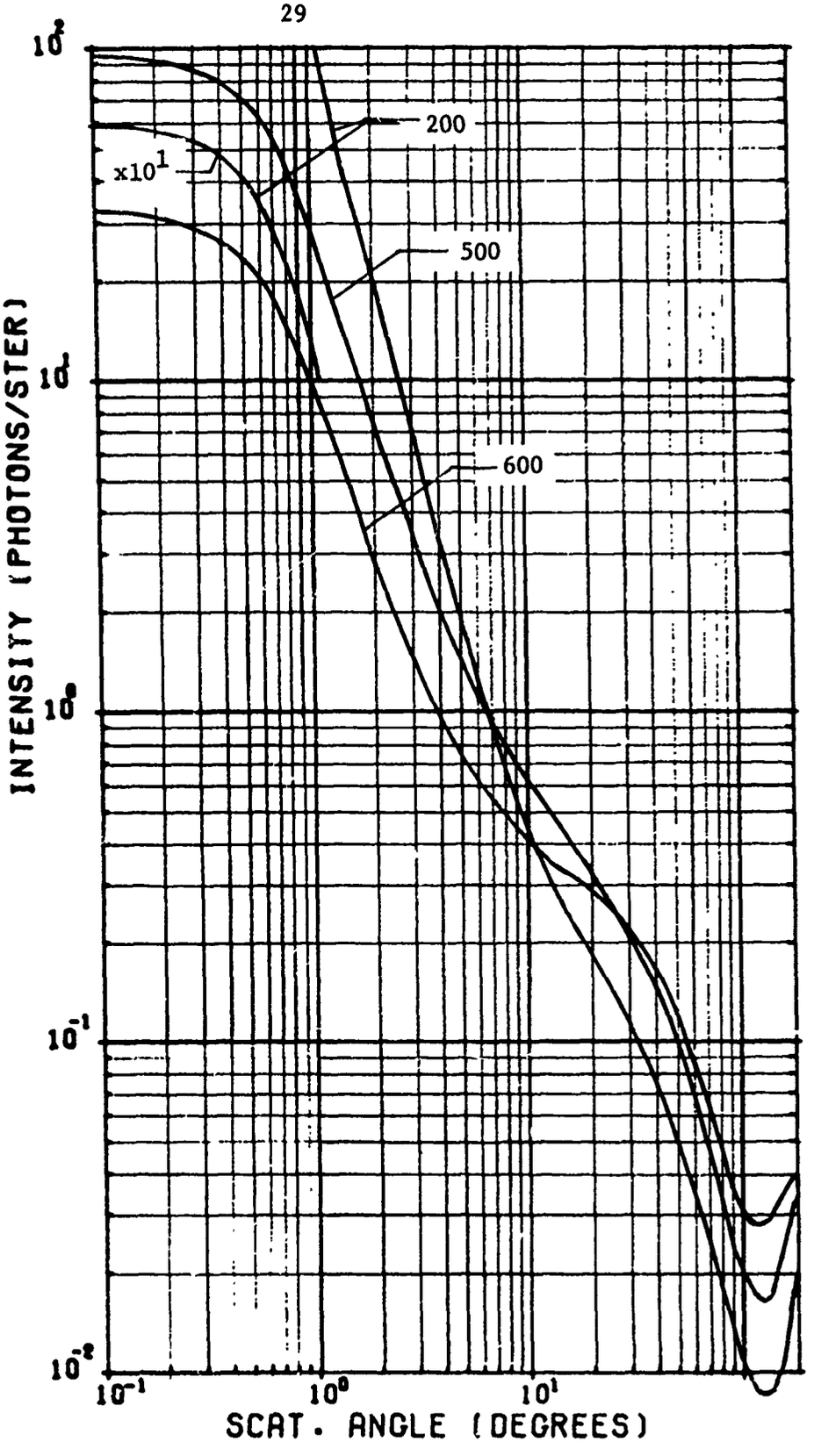

Fig. 16. Normalized Scattering Functions for Type A Aerosols, $\lambda = 0.70\mu$

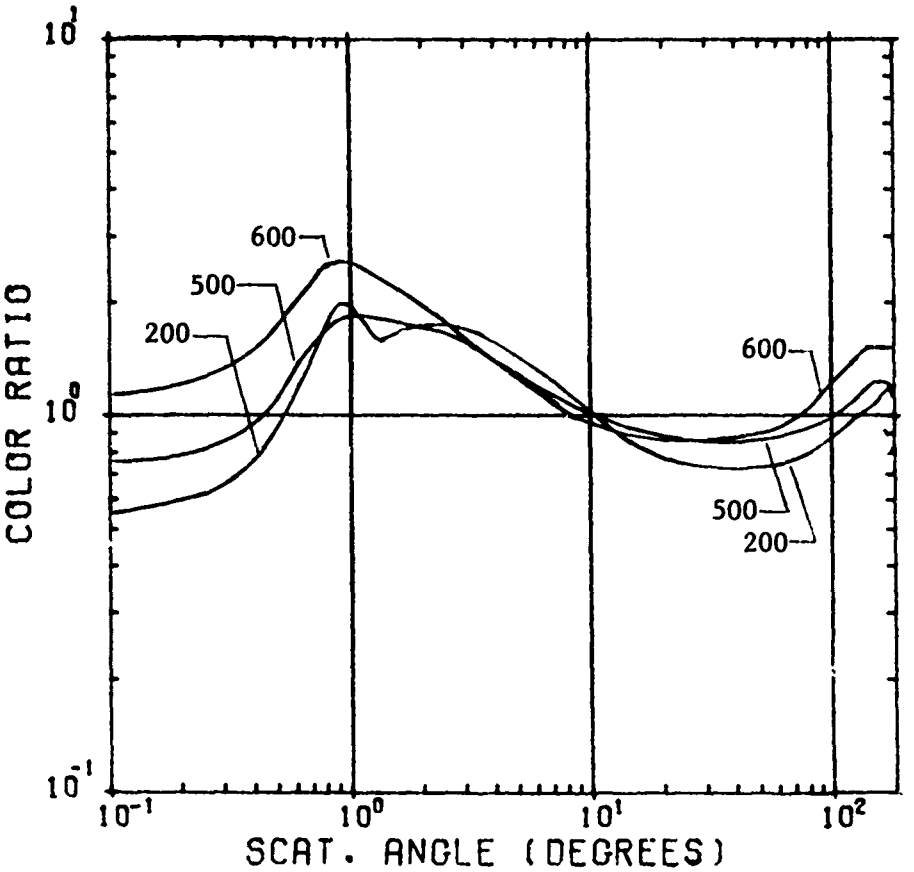

Fig. 17. Color Ratios for Type A Aerosol Size Distributions (I(0.7μ)/I(0.45μ))

and not from the volume scattering functions). It is seen that the forward scattering is more pronounced for the models that have relatively more large particles. The scattering function is therefore highest for model 200 and lowest for model 600, an opposite effect is observed for the color ratio (I(0.7μ)/I(0.45μ)) at small scattering angles. The color ratios show peak values at scattering angles of ~ 1° and 180°; the ratios are low for scattering angles of 0° and ~ 40° for all models being considered.

4.3 Scattering Functions for Type C Aerosols

The index of refraction for type C aerosols was taken to be 1.55 - 0.01i. Size distributions for type C aerosol particles are given in Table VI and in Fig. 18 (Eq. 7 was used to interpolate the size distributions for models 100 and 300, resulting in curves that are not as smooth as those shown in Fig. 15). Attenuation data are listed in Table VII, the corresponding scattering functions in Tables D1 through D20.

The normalized scattering functions for 0.70μ wavelength light are plotted in Fig. 19, and the color ratios (I(0.7μ)/I(0.45μ)) are given in Fig. 20. Figure 19 shows the high dependency of the magnitude of the forward scattering upon the (relative) number of large particles. All size distributions show a relative maximum of the scattering function at about 20° scattering angle. The scattering functions are almost identical for larger scattering angles. Figure 20 shows that maxima of the color ratios (I(0.7μ)/I(0.45μ)) occur at scattering angles of ~ 1° and ~ 50° - 60°, the second maximum corresponding to the so-called Bishop-ring that is observed for type C aerosol size distributions (Ref. 19).

Model 100 was used for calculating the sky radiances in the solar alumcantar (see also Section 4.1 and Ref. 15). Plots of the sky scattering functions are given in Figs. 21, 22, and 23 for

TABLE VI. SIZE DISTRIBUTIONS FOR TYPE C AEROSOL MODELS

r [μ]	Model 100	Model 300	Model 400	Model 700	Model 800
.06	9.73	9.73	30.0	89.2	89.2
.07	8.07	8.07	26.0	63.4	63.4
.08	6.79	6.79	21.0	46.7	46.7
.09	5.69	5.69	18.0	34.8	34.8
.1	4.83	4.83	16.0	26.6	26.6
.15	2.57	2.57	9.0	9.42	9.42
.2	1.42	1.42	6.0	3.91	3.91
.25	.716	.716	3.5	1.57	1.57
.3	.363	.363	1.0	0.666	0.666
.4	4.86-2	4.86-2	4.90-2	6.66-2	6.66-2
.5	1.34-2	1.34-2	1.34-2	1.47-2	1.47-2
.6	5.69-3	5.69-3	5.69-3	5.22-3	5.22-3
.7	2.75-3	2.75-3	2.75-3	2.16-3	2.16-3
.8	1.60-3	1.60-3	1.40-3	1.10-3	1.10-3
.9	1.01-3	1.01-3	8.00-4	6.17-4	6.17-4
1.	7.16-4	5.00-4	4.50-4	3.94-4	3.94-4
1.5	2.04-4	1.50-4	7.50-5	7.48-5	7.48-5
2.	8.99-5	4.00-5	1.95-5	2.47-5	2.47-5
2.5	4.83-5	1.50-5	9.00-6	1.06-5	1.06-5
3.	3.21-5	7.00-6	4.10-6	5.89-6	5.30-6
4.	1.43-5	2.40-6	1.40-6	1.96-6	1.60-6
5.	7.71-6	1.10-6	5.00-7	8.48-7	7.00-7
6.	4.83-6	5.50-7	2.50-7	4.43-7	3.40-7
7.	3.21-6	2.10-7	1.30-7	2.57-7	1.80-7
9.	2.29-6	1.90-7	6.00-8	1.57-7	1.00-7
9.	1.84-6	1.30-7	3.70-8	1.12-7	6.00-8
10.	1.42-6	1.00-7	2.10-8	8.09-8	3.60-8
15.	4.83-7	1.00-8	3.00-9	1.77-8	4.00-9
20.	2.57-7	2.00-9	7.80-10	7.07-9	9.00-10
25.			2.80-10		2.80-10
30.			1.00-10		1.00-10

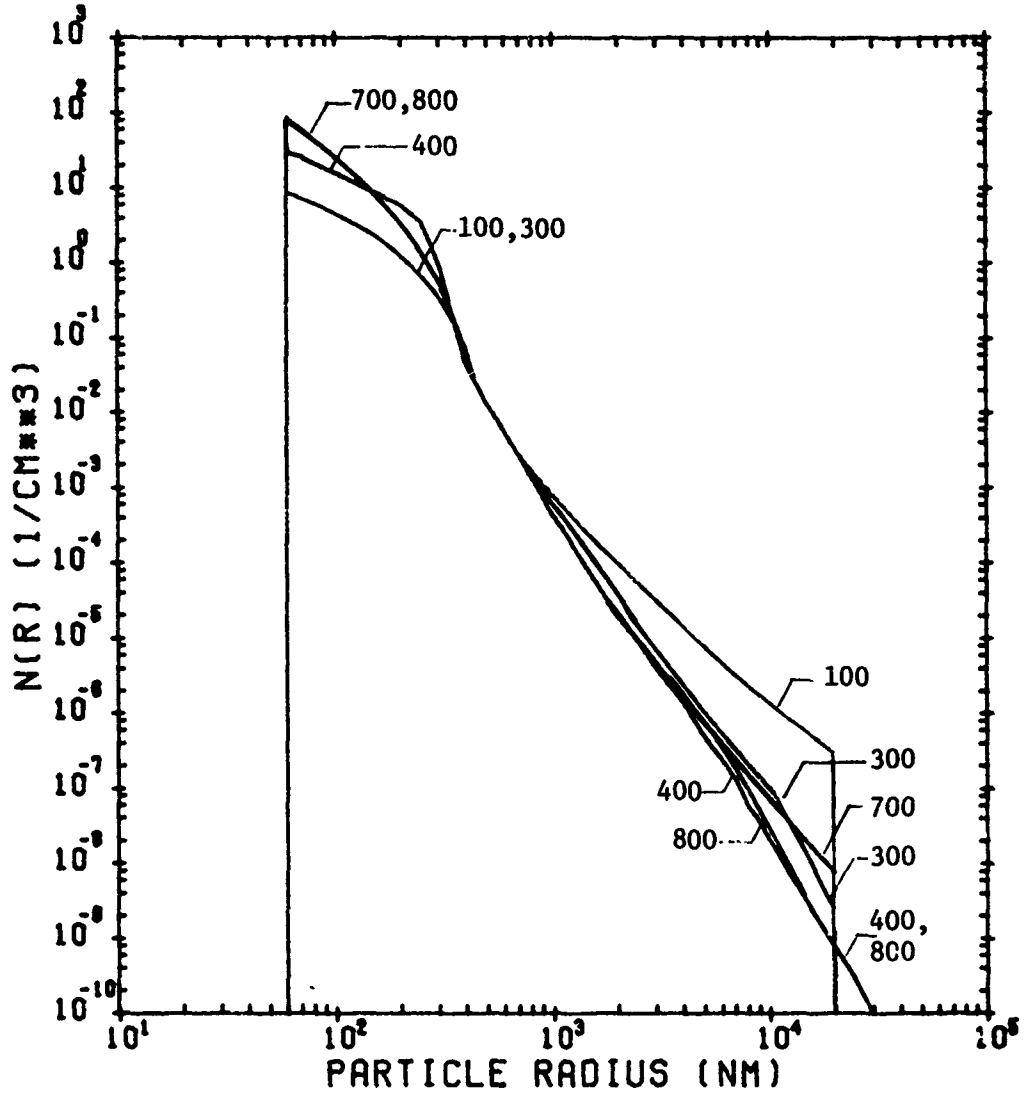

Fig. 18. Model Size Distributions for Type C Aerosols

TABLE VII. ATTENUATION DATA FOR TYPE C AEROSOLS*

m = 1.55 - 0.01i

	λ = 0.45μ		λ = 0.55μ		λ = 0.70μ		λ = 1.60μ	
MODEL	σ_{SCAT}	σ_{EXT}	σ_{SCAT}	σ_{EXT}	σ_{SCAT}	σ_{EXT}	σ_{SCAT}	σ_{EXT}
100	1.41-9	1.58-9	1.27-9	1.41-9	1.02-9	1.15-9	3.67-10	4.49-10
300	1.31-9	1.40-9	1.16-9	1.23-9	9.05-10	9.64-10	2.33-10	2.57-10
400	4.14-9	4.35-9	3.39-9	3.56-9	2.36-9	2.48-9	3.33-10	3.72-10
700	3.05-9	3.22-9	2.42-9	2.55-9	1.66-9	1.77-9	2.65-10	2.98-10
800	3.05-9	3.22-9	2.41-9	2.55-9	1.66-9	1.76-9	2.62-10	2.94-10

* The scattering coefficients, σ_{SCAT}, and extinction coefficients, σ_{EXT}, are given in cm^{-1}.

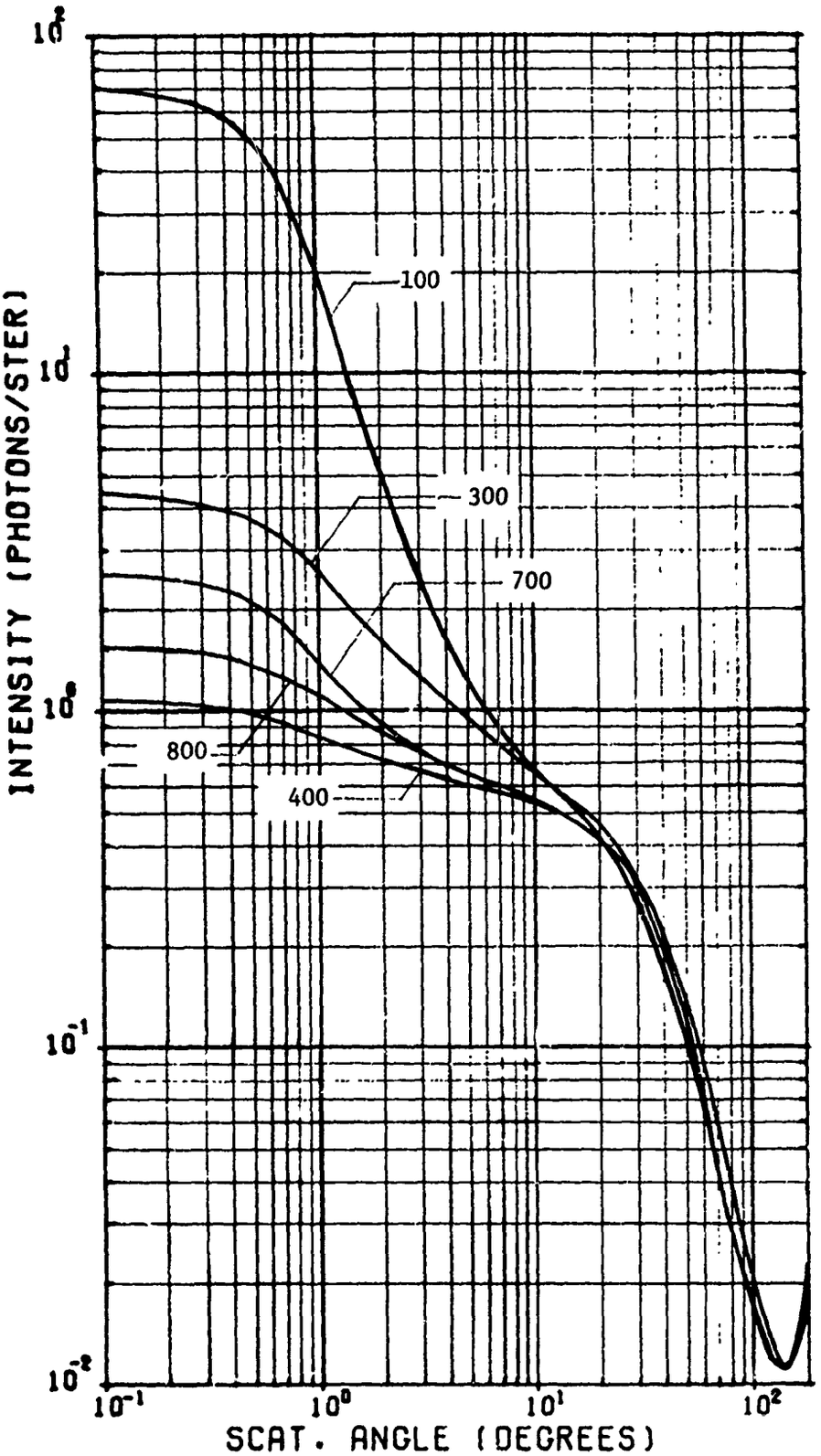

Fig. 19. Normalized Scattering Functions for Type C Aerosols, $\lambda = 0.70\mu$

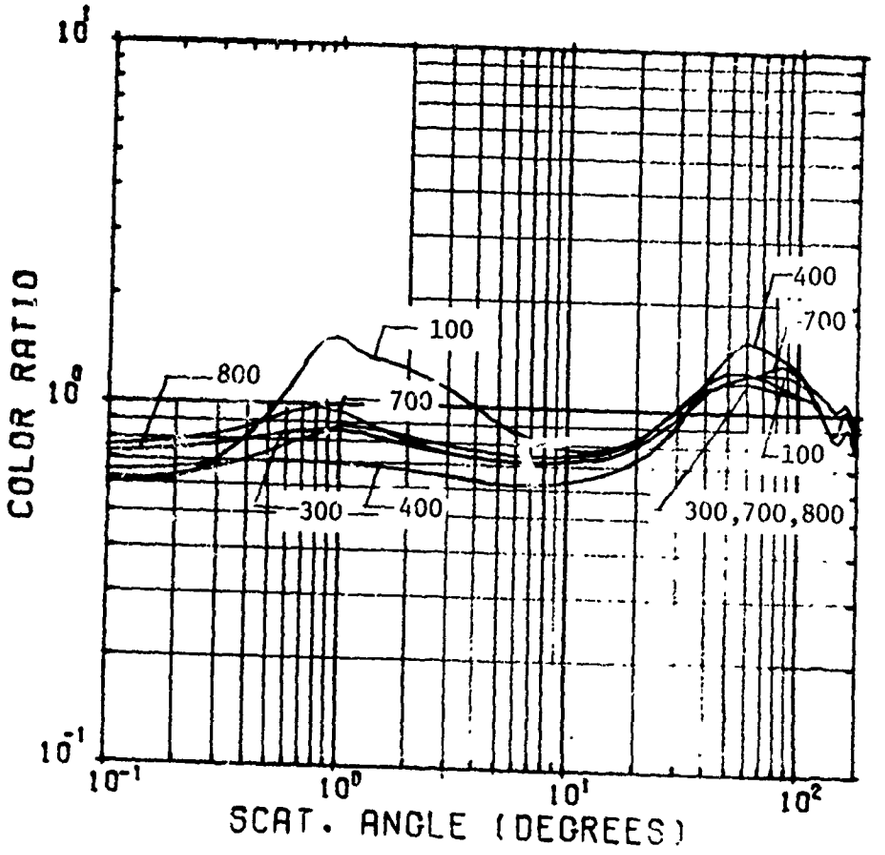

Fig. 20. Color Ratios for Type C Aerosol Size Distributions (I(0.7μ)/I(0.45μ))

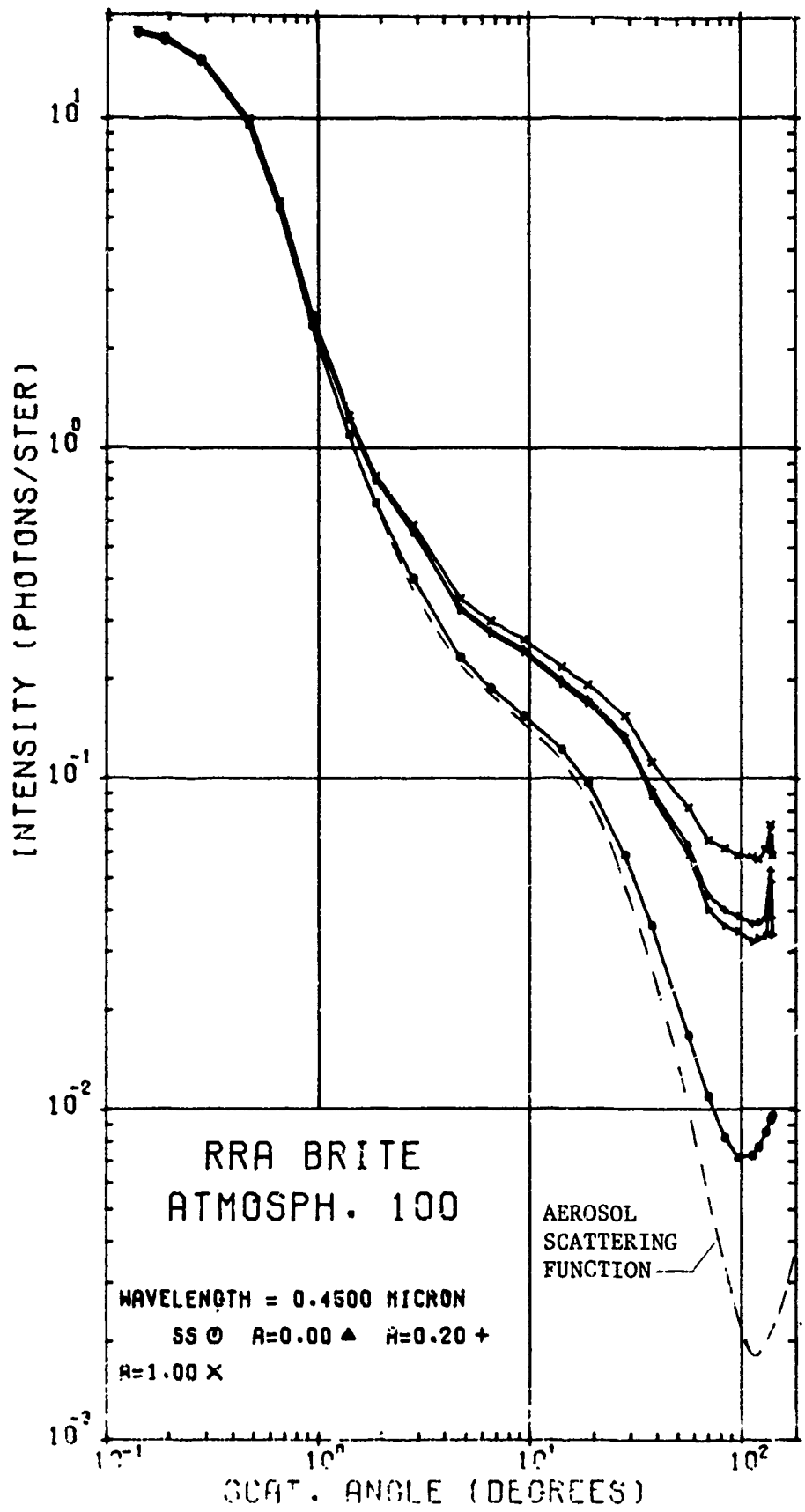

Fig. 21. Sky Scattering Function for Model 100, λ = 0.45μ

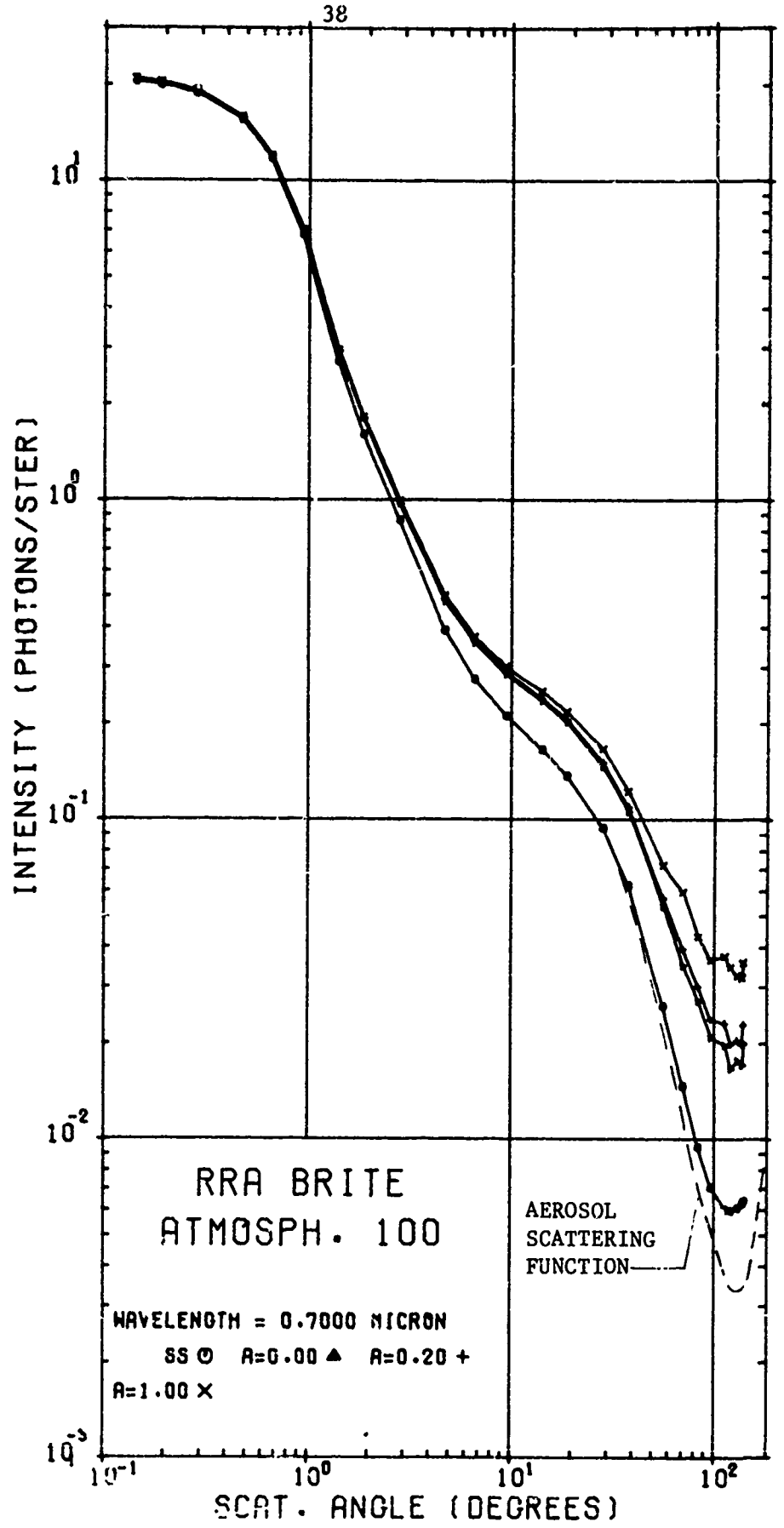

Fig. 22. Sky Scattering Function for Model 100, $\lambda = 0.70\mu$

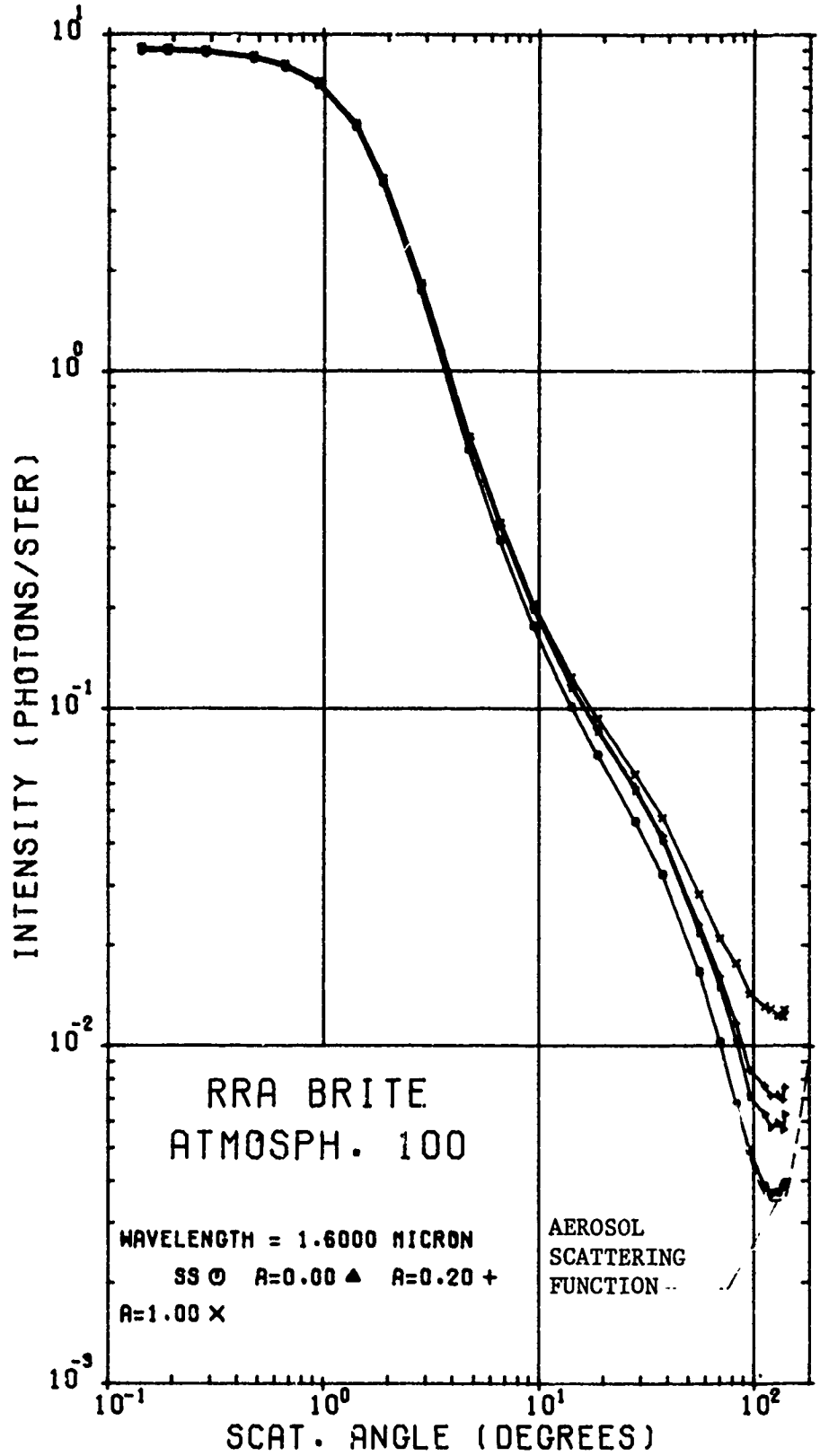

Fig. 23. Sky Scattering Function for Model 100, λ = 1.60μ

λ = 0.45μ, 0.70μ, and 1.60μ, respectively. The corresponding color ratios are given in Fig. 24. Data giving the scattering functions and color ratios as obtained from the MIE data for model 100 are shown in the graphs for comparison (broken lines, normalized to the corresponding single scattering values at 0.1° scattering angle). It is seen that the scattering functions are more affected by molecular and multiple scattering at shorter wavelengths for scattering angles larger than ~ 10° resulting in a noticeable decrease of the color ratio in the area of the Bishop-ring. The Bishop-ring almost disappears for albedo values $A \geq 0.2$. It is seen in Fig. 24 that the color ratios for Model 100 are not significantly dependent on the magnitude of the ground albedo.

A comparison with measured sky scattering functions and color ratios in Ref. 19 reveals that a good approximation of the size distribution for type C aerosols would be obtained by combining models 400 and 700, using model 700 for particle radii r > 1μm and increasing the number of particles for model 400 and r < ~ 0.4μm.

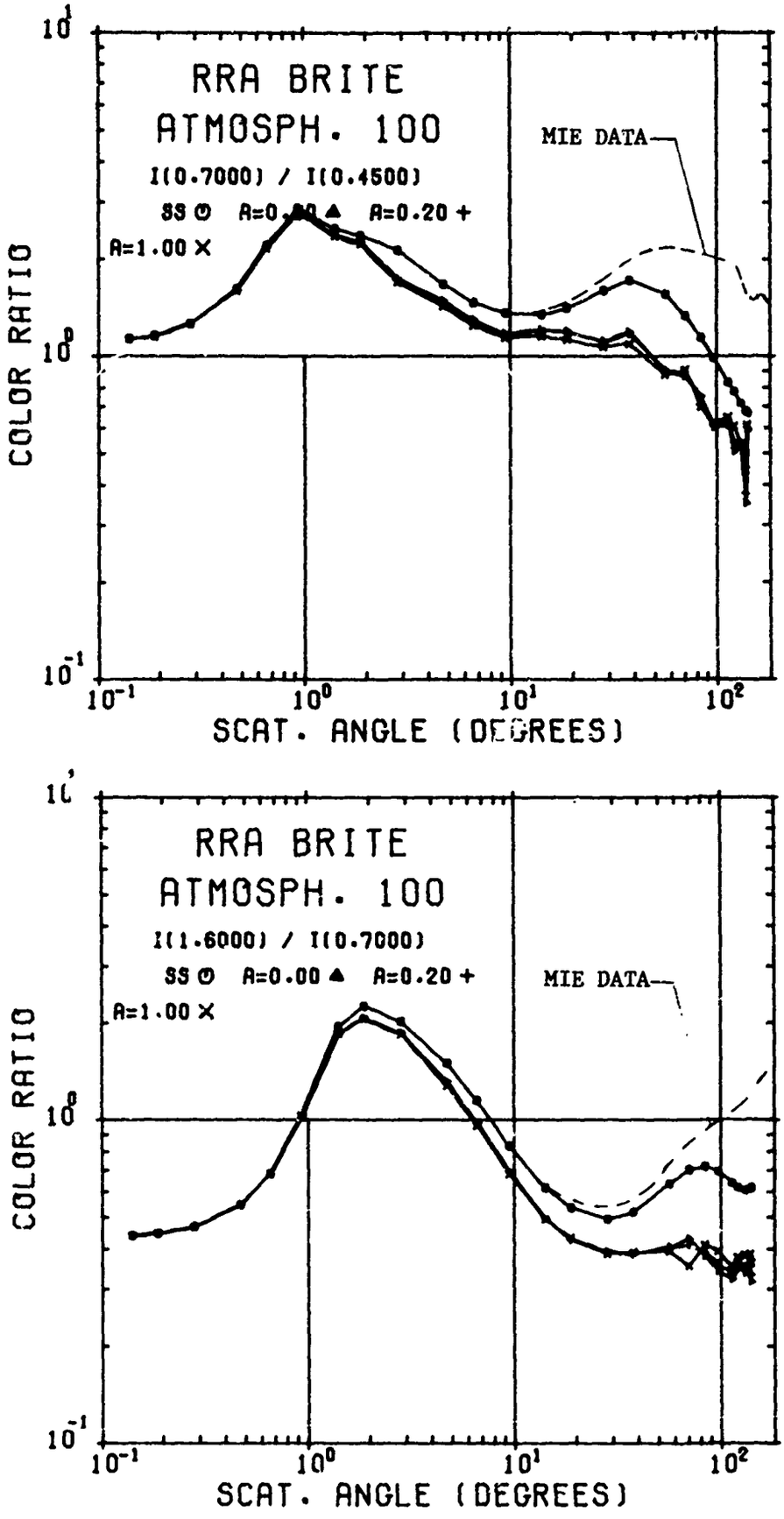

Fig. 24. Color Ratios of Sky Radiances for Model 100. ($I(0.7\mu)/I(0.45\mu)$, upper graph; $I(1.6\mu)/I(0.7\mu)$, lower graph)

V. SCATTERING FUNCTIONS FOR STRATOSPHERIC AEROSOLS

Little is known about aerosol in the stratosphere and there exist only a few direct measurements of aerosol size distributions in the stratosphere. A more recent paper by Friend (Ref. 24) shows that -- at least in the 20 km layer -- ~ 93% of the stratospheric aerosols are Aitken particles and ~ 6% are particles having radii in the region around 0.3μm. Friend's size distribution for the dust particles can be approximated by the gamma distribution (Ref. 25) as

$$\frac{dN}{d\log r} = c \cdot r^{8.5} e^{-28.33r} \tag{9}$$

or

$$\frac{dN}{dr} = a \cdot r^{7.5} e^{-28.33r} \tag{9a}$$

with the peak of the distribution (9) obtained at $r_p = 8.5/28.33 = 0.3\mu m$ and of the distribution (9a) at 0.265μm.

Mie calculations were performed for Aitken particles (model 30) and for the size distribution given by Eq. (9a) (model 20). For the Aitken particles, the size distribution was chosen to be constant (18.68) with limiting radii of $r_1 = 0.01\mu m$ and 0.06μm. The total number of Aitken particles is therefore $18.68 \cdot 0.05 = 0.934 cm^{-3}$. The value a in the distribution (9a) was taken to $1.0396 \cdot 10^7$, the lower and upper limit of the particle radii was chosen to 0.1μm and 10.0μm. The total number of particles is then approximately (Ref. 22) $N = 1.0396 \cdot 10^7 \cdot 28.33^{-8.5} \cdot \Gamma(8.5) = 0.066 cm^{-3}$. The index of refraction was taken to 1.50 - 0.0i for both model 20 and model 30.

The computed scattering coefficients are listed in Table VIII, the normalized phase matrices are given for wavelengths of 0.41μ, 0.50μ, 0.55μ, 0.70μ, and 0.85μ in Tables E1 through E5 for model 20 and in Tables E6 through E10 for model 30.

TABLE VIII. SCATTERING COEFFICIENTS FOR STRATOSPHERIC AEROSOLS (cm^{-1})

m = 1.50 - 0.0i

Wavelengths	Model 20	Model 30
0.41μ	6.500-10	2.943-12
0.50μ	7.184-10	1.357-12
0.55μ	7.315-10	9.299-13
0.70μ	6.834-10	3.548-13
0.85μ	5.747-10	1.629-13

It can be seen from Table VIII that the scattering coefficients of particles in the 0.3μm region is almost independent of the wavelength, whereas the scattering coefficient for the Aitken particles varies proportionally to $\lambda^{-3.97}$ (the scattering coefficient for molecules varies by λ^{-4}). The scattering coefficients for particles having the size distribution (9a) are much larger than those for the Aitken particles even though the Aitken particles outnumber the larger particles by a factor of .934/.066 = 14.15. These high values can be verified by a simple hand calculation. The ratio of the scattering coefficients for models 20 and 30 can be approximated by

$$\frac{\sigma_{20}}{\sigma_{30}} \approx \frac{N_{20} \cdot 0.263^2 \cdot \pi \cdot Q(x_2)}{N_{30} \cdot 0.035^2 \cdot \pi \cdot Q(x_1)}$$

$$= 4.05 \cdot \frac{Q(x_2)}{Q(x_1)} \quad . \tag{10}$$

where $Q(x)$ is the efficiency factor for particles of size $x = 2\pi r/\lambda$ (r = radius, λ = wavelength). For $\lambda = 0.41\mu$ we obtain (MIE-3 program) $Q(2\pi \cdot 0.265/.41) = Q(4.06) \approx 4.05$ and $Q(2\pi \cdot 0.035/.41) = Q(.536) \approx .02$ and therefore $\sigma_{20}/\sigma_{30} \approx 820$; for $\lambda = 0.85\mu$ the ratio σ_{20}/σ_{30} is computed to $\sim 5.03 \cdot 10^3$. Both of these ratios are in the same order of magnitude as those obtained from Table VIII.

A combined phase function for models 20 and 30 may be calculated by

$$p(\phi) = (\sigma_{20} \cdot p_{20}(\phi) + \sigma_{30} \cdot p_{30}(\phi)/(\sigma_{20} + \sigma_{30}), \tag{11}$$

where p_{20} and p_{30} denote the phase functions for models 20 and 30, respectively. Even though the phase functions for these two models are quite different (Fig. 25), it can be seen from Table VIII and Eq. (1) that the stratospheric aerosol scattering is dominated by the large particles and -- under the assumption of the particle concentrations for Aitken particles and large particles as reported in Ref. 24 -- that light scattering by Aitken particles may be neglected in the stratosphere.

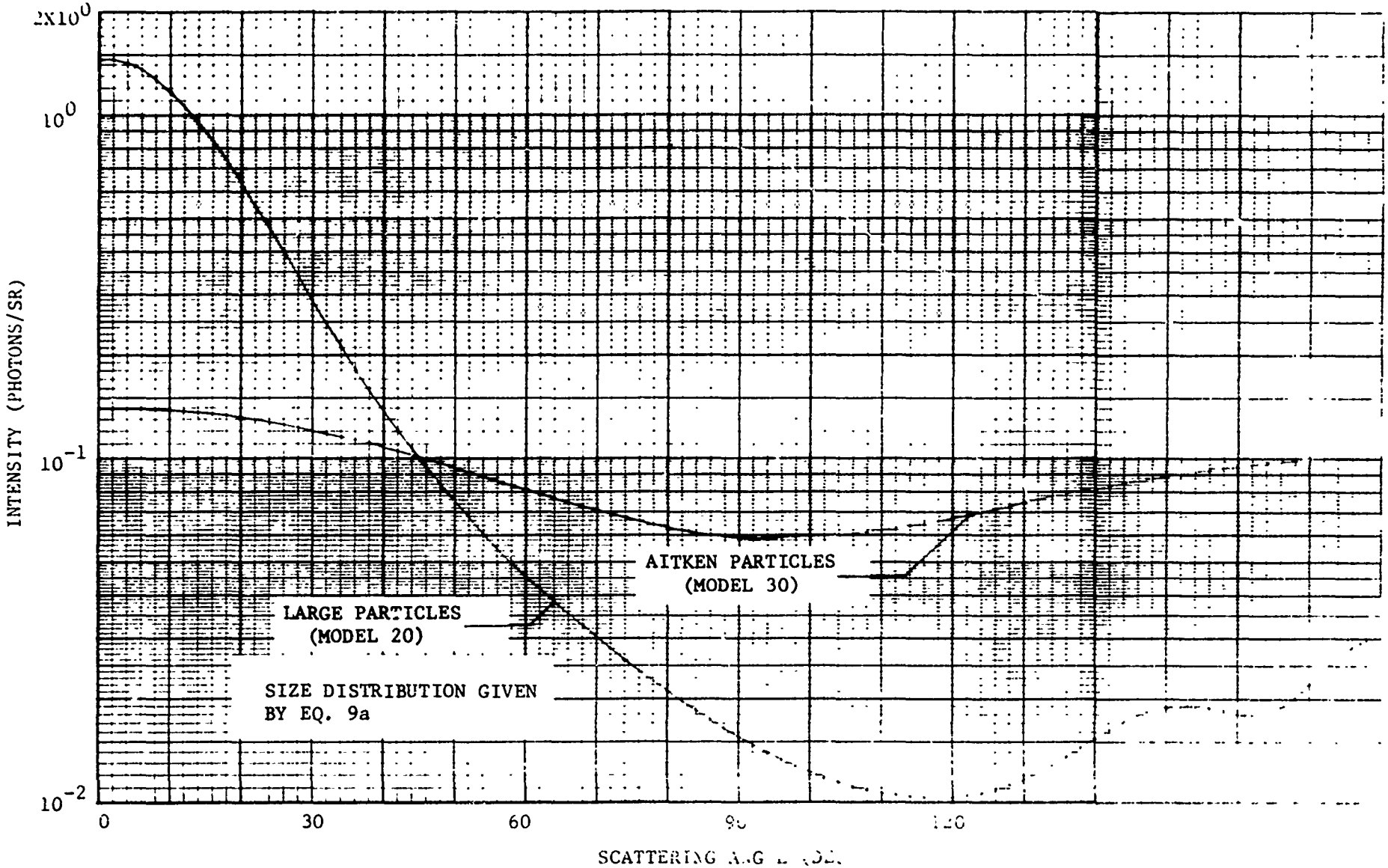

Fig. 25. Normalized Phase Function for Stratospheric Aerosols, · = 0.55.

VI. FOG SCATTERING IN THE VISIBLE AND NEAR IR

The gamma distribution (Ref. 22)

$$\frac{dN}{dr} = D \cdot r^m \cdot e^{-br} \tag{9b}$$

was used for MIE calculations in fog. Four different types of fog particles were assumed. These size distributions are designated as models 1, 2, 3, and 4 (see Refs. 26 and 15 ; the constants needed in Eq. (9b) are listed in Table IX. Plots of the size distributions for fog models 1, 2, 3, and 4 are given in Fig. 24 of Ref. 15. Using Eq. (9b), the mean particle radius is given by

$$r_2 = \frac{(m+1)(m+2)}{b} \tag{12}$$

and the total number of particles by (Ref. 25)

$$N_0 = D \cdot \Gamma(m+1) \cdot b^{-(m+1)} \quad . \tag{13}$$

The extinction coefficient may then be approximated by

$$\sigma = 2\pi \cdot N_0 \cdot r_2^{\,2} \cdot 10^{-3} (km^{-1}) \quad , \tag{14}$$

where N_0 and r_2 are expressed in cm^{-3} and μm, respectively.

The calculations were performed for wavelengths of 0.40μ, 0.6943μ (Ruby laser wavelength), and 0.80μ. The indices of refraction for these three wavelengths were taken to be 1.343 - 0.0i, 1.330 - $0.24 \cdot 10^{-6}$i, and 1.328 - 0.0i, respectively. The computed attenuation coefficients are compared in Table X with the extinction coefficient given by Eq. (14). The corresponding phase matrices for all models and wavelengths under consideration are given in Tables F1 through F12. Plots for $\lambda = 0.6943\mu$ and fog models 1, 2, 3, and 4 are given in Fig. 26.

TABLE IX. FOG PARTICLE PARAMETERS

Model	m	b	D	N_0 [cm^{-3}]	r_2 [μm]	Particle Range
1	3	0.3	0.02700	20	14.907	1-40μ
2	3	0.375	0.06592	20	11.926	.8-32μ
3	6	1.5	2.37305	100	4.989	.4-12μ
4	6	3.0	607.50000	200	2.494	.4-6μ

TABLE X. ATTENUATION COEFFICIENTS (cm^{-1}) FOR FOG (INDEX OF REFRACTION = 1.343 - 0.0i FOR 0.40μ, 1.330 - $0.24 \cdot 10^{-6}$i FOR 0.6943μ AND 1.328 - 0.0i FOR 0.80μ)

MODEL NO.	$\sigma_{EXT}(0.40\mu)$	$\sigma_{EXT}(0.6943\mu)$	$\sigma_{ABS}(0.6943\mu)$	$\sigma_{EXT}(0.80\mu)$	σ_{EXT}(Eq. 13)
1	$2.801 \cdot 10^{-4}$	$2.831 \cdot 10^{-4}$	$2.265 \cdot 10^{-8}$	$2.840 \cdot 10^{-4}$	$2.793 \cdot 10^{-4}$
2	$1.800 \cdot 10^{-4}$	$1.821 \cdot 10^{-4}$	$1.141 \cdot 10^{-8}$	$1.828 \cdot 10^{-4}$	$1.787 \cdot 10^{-4}$
3	$1.633 \cdot 10^{-4}$	$1.670 \cdot 10^{-4}$	$4.687 \cdot 10^{-9}$	$1.681 \cdot 10^{-4}$	$1.564 \cdot 10^{-4}$
4	$8.414 \cdot 10^{-5}$	$8.722 \cdot 10^{-5}$	$1.147 \cdot 10^{-9}$	$8.827 \cdot 10^{-5}$	$7.819 \cdot 10^{-5}$

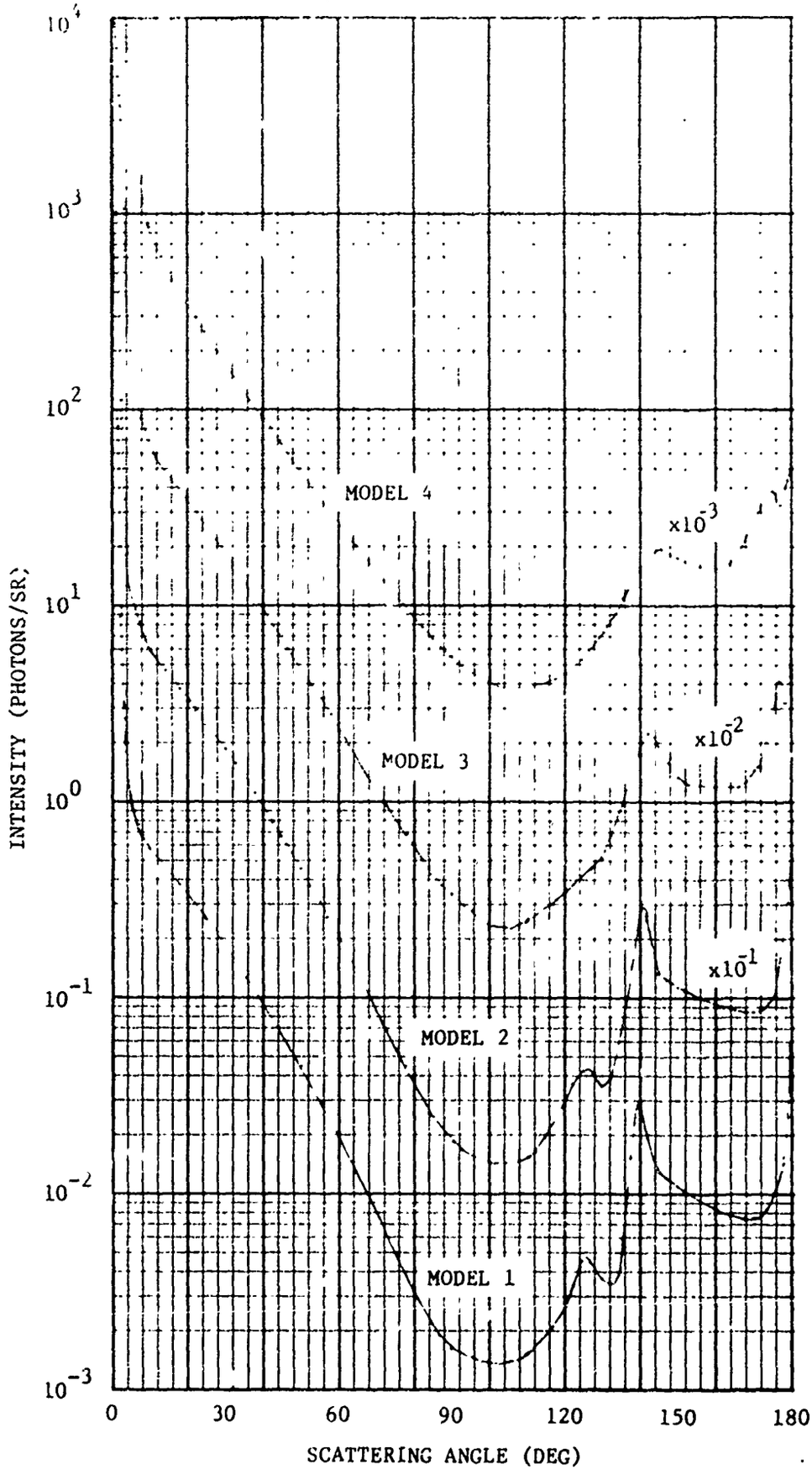

Fig. 26. Normalized Phase Function for Fog Models, $\lambda = 0.6943\mu$

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APPENDIX A

Normalized Phase Matrices for Aerosol Particles in an Atmosphere with a Relative Humidity of 75%

TABLE A1. NORMALIZED PHASE MATRIX FOR SPHERICAL-SHELL PARTICLES AT A 75% RELATIVE HUMIDITY, λ=0.30μ

MI=1.68000-0.040000I, MS=1.35000-0.000000I

SCATTERING ANGLE	I1	I2	I3	I4	SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.793987E+01	1.793987E+01	1.793987E+01	-1.312203E-16	80.00	4.404927E-02	2.825077E-02	2.910018E-02	-4.761037E-03
1.00	6.539963E+00	6.539905E+00	6.537546E+00	-2.539758E-02	82.00	4.163479E-02	2.639352E-02	2.680854E-02	-4.205442E-03
2.00	3.576064E+00	3.580254E+00	3.577498E+00	-2.6 7627E-02	84.00	3.937399E-02	2.471424E-02	2.479984E-02	-3.935011E-03
3.00	2.510569E+00	2.514986E+00	2.511833E+00	-2.565238E-02	86.00	3.726708E-02	2.318077E-02	2.284590E-02	-3.422314E-03
4.00	1.954435E+00	1.959495E+00	1.951538E+00	-2.540700E-02	88.00	3.528716E-02	2.187520E-02	2.114060E-02	-3.021 15E-03
5.00	1.593750E+00	1.603239E+00	1.599405E+00	-2.578198E-02	90.00	3.346440E-02	2.059824E-02	1.954965E-02	-2.633547E-03
6.00	1.353283E+00	1.357542E+00	1.353434E+00	-2.572542E-02	92.00	3.180999E-02	1.950063E-02	1.805218E-02	-2.273007E-03
7.00	1.171578E+00	1.174162E+00	1.169990E+00	-2.510653E-02	94.00	3.028593E-02	1.8537[illegible]E-02	1.673830E-02	-1.943935E-03
8.00	1.028232E+00	1.030981E+00	1.020697E+00	-2.410211E-02	96.00	2.884970E-02	1.767838E-02	1.547081E-02	-1.603396E-03
9.00	9.141743E-01	9.155891E-01	9.119547E-01	-2.275950E-02	98.00	2.749651E-02	1.690006E-02	1.432313E-02	-1.293444E-03
10.00	8.200776E-01	8.260193E-01	8.170224E-01	-2.128130E-02	100.00	2.623595E-02	1.622341E-02	1.327113E-02	-9.895149E-04
11.00	7.432090E-01	7.413789E-01	7.390628E-01	-1.942746E-02	102.00	2.511177E-02	1.563736E-02	1.23 7415E-02	-6.902107E-04
12.00	6.801077E-01	6.749504E-01	6.740187E-01	-1.732129E-02	104.00	2.437730E-02	1.513012E-02	1.142104E-02	-4.3 195E-04
13.00	6.297606E-01	6.200645E-01	6.225933E-01	-1.602393E-02	106.00	2.330608E-02	1.469522E-02	1.059249E-02	-1.301990E-04
14.00	5.870464E-01	5.734505E-01	5.770557E-01	-1.559263E-02	108.00	2.215260E-02	1.431670E-02	9.514251E-03	6.7 5141E-05
15.00	5.493325E-01	5.331494E-01	5.393139E-01	-1.566796E-02	110.00	2.130646E-02	1.400850E-02	9.106910E-03	3.347539E-04
16.00	5.171153E-01	4.979020E-01	5.053590E-01	-1.599420E-02	112.00	2.059514E-02	1.377250E-02	8.475255E-03	5.301742E-04
17.00	4.877727E-01	4.667044E-01	4.751370E-01	-1.650059E-02	114.00	1.982372E-02	1.358715E-02	7.607913E-03	7.5 3097E-04
18.00	4.612469E-01	4.388755E-01	4.480405E-01	-1.715635E-02	116.00	1.914217E-02	1.344104E-02	7.306307E-03	9.031049E-04
19.00	4.371673E-01	4.137510E-01	4.233732E-01	-1.765490E-02	118.00	1.850875E-02	1.334551E-02	6.779981E-03	1.143353E-03
20.00	4.15 6496E-01	3.980069E-01	4.008545E-01	-1.817022E-02	120.00	1.790647E-02	1.331261E-02	6.314002E-03	1.222478E-03
22.00	3.750710E-01	3.565944E-01	3.608634E-01	-1.901757E-02	122.00	1.749542E-02	1.334169E-02	5.907490E-03	1.487306E-03
24.00	3.414473E-01	3.168725E-01	3.262730E-01	-1.955770E-02	124.00	1.702567E-02	1.340715E-02	5.440935E-03	1.630992E-03
26.00	3.114486E-01	2.860337E-01	2.960170E-01	-1.963065E-02	126.00	1.656984E-02	1.348140E-02	5.038345E-03	1.733930E-03
28.00	2.849324E-01	2.595396E-01	2.692650E-01	-1.990508E-02	128.00	1.619052E-02	1.360460E-02	4.673537E-03	1.925702E-03
30.00	2.612635E-01	2.359881E-01	2.454045E-01	-1.977706E-02	130.00	1.586898E-02	1.386231E-02	4.354186E-03	2.050 40E-03
32.00	2.399603E-01	2.145942E-01	2.239449E-01	-1.946751E-02	132.00	1.556386E-02	1.400941E-02	4.025767E-03	2.164293E-03
34.00	2.207315E-01	1.959026E-01	2.046052E-01	-1.902771E-02	134.00	1.530333E-02	1.423902E-02	3.695242E-03	2.263740E-03
36.00	2.033826E-01	1.787008E-01	1.871626E-01	-1.852822E-02	136.00	1.510269E-02	1.452017E-02	3.389099E-03	2.352646E-03
38.00	1.876134E-01	1.632544E-01	1.712008E-01	-1.794328E-02	138.00	1.494228E-02	1.483379E-02	3.103193E-03	2.420033E-03
40.00	1.732931E-01	1.490928E-01	1.568153E-01	-1.726560E-02	140.00	1.479952E-02	1.517378E-02	2.824440E-03	2.463396E-03
42.00	1.602692E-01	1.362468E-01	1.436937E-01	-1.659116E-02	142.00	1.467491E-02	1.549970E-02	2.533011E-03	2.509423E-03
44.00	1.484250E-01	1.246627E-01	1.317643E-01	-1.592151E-02	144.00	1.460637E-02	1.581584E-02	2.257102E-03	2.542771E-03
46.00	1.370109E-01	1.139814E-01	1.208524E-01	-1.521752E-02	146.00	1.462031E-02	1.617819E-02	1.990690E-03	2.569973E-03
48.00	1.276644E-01	1.043171E-01	1.108711E-01	-1.450414E-02	148.00	1.469228E-02	1.650406E-02	1.754793E-03	2.579645E-03
50.00	1.185060E-01	9.550627E-02	1.017296E-01	-1.377870E-02	150.00	1.480092E-02	1.679515E-02	1.370020E-03	2.579546E-03
52.00	1.101322E-01	8.745725E-02	9.336210E-02	-1.304420E-02	152.00	1.501287E-02	1.708041E-02	1.005665E-03	2.559430E-03
54.00	1.024708E-01	8.014506E-02	8.573021E-02	-1.233606E-02	154.00	1.529426E-02	1.736642E-02	7.504703E-04	2.647290E-03
56.00	9.548926E-02	7.347820E-02	7.874470E-02	-1.164190E-02	156.00	1.567314E-02	1.763129E-02	5.048202E-04	2.764982E-03
58.00	8.903947E-02	6.742864E-02	7.235373E-02	-1.095991E-02	158.00	1.612960E-02	1.791535E-02	2.177407E-04	2.991335E-03
60.00	8.335707E-02	6.194020E-02	6.656302E-02	-1.030794E-02	160.00	1.660112E-02	1.838204E-02	-7.978249E-05	3.331755E-03
62.00	7.757635E-02	5.692449E-02	6.112733E-02	-9.663137E-03	162.00	1.696742E-02	1.879538E-02	-3.376135E-04	3.693984E-03
64.00	7.256948E-02	5.236160E-02	5.619064E-02	-9.020073E-03	164.00	1.698982E-02	1.928703E-02	-7.939613E-04	3.901109E-03
66.00	6.793017E-02	4.821623E-02	5.169304E-02	-8.408015E-03	166.00	1.662249E-02	1.931406E-02	-1.422189E-03	3.748774E-03
68.00	6.364960E-02	4.447553E-02	4.757157E-02	-7.815489E-03	168.00	1.573221E-02	1.884192E-02	-2.466232E-03	2.979151E-03
70.00	5.963040E-02	4.105648E-02	4.380833E-02	-7.250408E-03	170.00	1.420965E-02	1.744404E-02	-4.029203E-03	1.409453E-03
72.00	5.600708E-02	3.790253E-02	4.034548E-02	-6.714609E-03	172.00	1.264423E-02	1.530232E-02	-6.221895E-03	-6.049774E-04
74.00	5.272153E-02	3.510684E-02	3.714995E-02	-6.106920E-03	174.00	1.212827E-02	1.370612E-02	-8.971264E-03	-1.06 434E-03
76.00	4.961307E-02	3.262443E-02	3.423115E-02	-5.675035E-03	176.00	1.331433E-02	1.394670E-02	-1.212784E-02	-1.723404E-03
78.00	4.671024E-02	3.033501E-02	3.155605E-02	-5.177923E-03	178.00	1.552207E-02	1.564038E-02	-1.520917E-02	-7.405315E-04
					180.00	1.783264E-02	1.783264E-02	-1.783264E-02	-3.774340E-17

TABLE A2. NORMALIZED PHASE MATRIX FOR SPHERICAL-SHELL PARTICLES AT A 79% RELATIVE HUMIDITY, λ=0.40μ

MI=1.640000-0.044000I, MS=1.343000-0.000000I

SCATTERING ANGLE	I1	I2	I3	I4	SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.395987E+01	1.395987E+01	1.395987E+01	-3.008393E-15	80.00	4.599651E-02	2.533141E-02	2.759923E-02	-4.402143E-03
1.00	6.590339E+00	6.603419E+00	6.599325E+00	-2.795944E-02	82.00	4.359547E-02	2.353493E-02	2.536264E-02	-3.942439E-03
2.00	3.616046E+00	3.620870E+00	3.601797E+00	-2.567394E-02	84.00	4.137357E-02	2.191402E-02	2.319774E-02	-3.623140E-03
3.00	2.542217E+00	2.546901E+00	2.543595E+00	-2.579972E-02	86.00	3.935440E-02	2.046531E-02	2.125313E-02	-2.952733E-03
4.00	1.974979E+00	1.979159E+00	1.975711E+00	-2.575325E-02	88.00	3.749942E-02	1.916958E-02	1.945063E-02	-2.590320E-03
5.00	1.601731E+00	1.602601E+00	1.601726E+00	-2.534094E-02	90.00	3.580375E-02	1.802050E-02	1.775294E-02	-2.234103E-03
6.00	1.307023E+00	1.370749E+00	1.367111E+00	-2.472470E-02	92.00	3.421005E-02	1.702420E-02	1.622425E-02	-1.924377E-03
7.00	1.181817E+00	1.184274E+00	1.180559E+00	-2.460974E-02	94.00	3.284391E-02	1.612059E-02	1.484093E-02	-1.503794E-03
8.00	1.037522E+00	1.036959E+00	1.035595E+00	-2.293633E-02	96.00	3.109734E-02	1.534117E-02	1.355102E-02	-1.211349E-03
9.00	9.215336E-01	9.220250E-01	[illegible]	-2.106969E-02	98.00	2.970379E-02	1.460411E-02	1.231063E-02	-9.374041E-04
10.00	8.205007E-01	8.250240E-01	8.233300E-01	-2.031070E-02	100.00	2.854595E-02	1.409064E-02	1.110073E-02	-6.349634E-04
11.00	7.479214E-01	7.451104E-01	7.437970E-01	-1.921693E-02	102.00	2.747663E-02	1.360524E-02	[illegible]	[illegible]
12.00	6.894030E-01	6.739120E-01	6.790640E-01	-1.813397E-02	104.00	2.635779E-02	1.317090E-02	9.197870E-03	-1.270122E-04
13.00	6.347131E-01	6.238952E-01	6.273235E-01	-1.726399E-02	106.00	2.536511E-02	1.283053E-02	9.290390E-03	8.763912E-05
14.00	5.915470E-01	5.771520E-01	5.826730E-01	-1.614020E-02	108.00	2.443315E-02	1.257732E-02	7.460461E-03	4.956337E-04
15.00	5.594269E-01	5.387342E-01	5.434452E-01	-1.542437E-02	110.00	2.363490E-02	1.230176E-02	6.300496E-03	[illegible]
16.00	5.203008E-01	5.012631E-01	5.091760E-01	-1.539434E-02	112.00	2.293797E-02	1.222194E-02	5.955049E-03	6.056704E-04
17.00	4.891412E-01	4.697693E-01	4.769584E-01	-1.642323E-02	114.00	2.213123E-02	1.212650E-02	5.027024E-03	8.490749E-04
18.00	4.641226E-01	4.424033E-01	4.504295E-01	-1.694974E-02	116.00	2.150741E-02	1.210335E-02	4.031195E-03	1.074726E-03
19.00	4.349318E-01	4.159307E-01	4.259150E-01	-1.743391E-02	118.00	2.083369E-02	1.216940E-02	4.019922E-03	1.225521E-03
20.00	4.169959E-01	3.920501E-01	4.029590E-01	-1.798031E-02	120.00	[illegible]	1.210030E-02	[illegible]	[illegible]
22.00	3.769279E-01	3.516573E-01	3.622114E-01	-1.857776E-02	122.00	1.976731E-02	1.224233E-02	3.035798E-03	1.595935E-03
24.00	3.462693E-01	3.184670E-01	3.274947E-01	-1.913692E-02	124.00	1.931732E-02	1.243304E-02	2.084912E-03	1.711074E-03
26.00	3.227641E-01	2.958131E-01	2.962574E-01	-1.922130E-02	126.00	1.887570E-02	1.259557E-02	2.011972E-03	1.925930E-03
28.00	2.849130E-01	2.580042E-01	2.609927E-01	-1.919398E-02	128.00	1.849196E-02	1.283790E-02	1.093070E-03	1.944949E-03
30.00	2.607600E-01	2.347759E-01	2.440540E-01	-1.939426E-02	130.00	1.814405E-02	1.312609E-02	1.032070E-03	2.039730E-03
32.00	2.394723E-01	2.132321E-01	2.230459E-01	-1.861277E-02	132.00	1.783704E-02	1.341350E-02	9.219907E-04	2.101349E-03
34.00	2.242253E-01	1.938777E-01	2.035817E-01	-1.811331E-02	134.00	1.753143E-02	1.374594E-02	5.046294E-04	2.257791E-03
36.00	2.078603E-01	1.764420E-01	1.859419E-01	-1.755349E-02	136.00	1.731202E-02	1.410935E-02	2.601910E-04	[illegible]
38.00	1.871510E-01	1.606014E-01	1.699657E-01	-1.693307E-02	138.00	1.712494E-02	1.447910E-02	-1.073093E-04	2.403108E-03
40.00	1.728395E-01	1.463414E-01	1.554690E-01	-1.628153E-02	140.00	1.697525E-02	1.469400E-02	-4.019378E-04	2.460347E-03
42.00	1.599373E-01	1.333607E-01	1.420075E-01	-1.559053E-02	142.00	1.657392E-02	1.533777E-02	-7.359459E-04	2.649170E-03
44.00	1.481343E-01	1.215101E-01	1.302300E-01	-1.488991E-02	144.00	1.677794E-02	1.570180E-02	-1.040235E-03	2.510150E-03
46.00	1.374033E-01	1.107932E-01	1.193193E-01	-1.414919E-02	146.00	1.671330E-02	1.604973E-02	-1.305977E-03	2.515902E-03
48.00	1.270952E-01	1.010473E-01	1.093093E-01	-1.343070E-02	148.00	1.674030E-02	1.652163E-02	-1.650203E-03	2.523973E-03
50.00	1.195727E-01	9.223370E-02	[illegible]	-1.273027E-02	150.00	1.682752E-02	1.706835E-02	-1.954059E-03	2.519032E-03
52.00	1.101445E-01	8.411710E-02	9.409403E-02	-1.202332E-02	152.00	1.690320E-02	1.735059E-02	-2.009072E-03	2.479267E-03
54.00	1.002949E-01	7.079710E-02	9.023109E-02	-1.131140E-02	154.00	1.715993E-02	1.768535E-02	-2.305030E-03	2.432095E-03
56.00	9.013037E-02	7.315204E-02	7.735200E-02	-1.060643E-02	156.00	1.748316E-02	1.790400E-02	-2.903570E-03	2.400799E-03
58.00	8.377706E-02	6.449023E-02	7.037439E-02	-9.491135E-03	158.00	1.777593E-02	1.821909E-02	-3.017065E-03	2.497335E-03
60.00	8.093946E-02	5.955610E-02	6.512047E-02	-9.319047E-03	160.00	1.802325E-02	1.855939E-02	-3.025049E-03	2.011792E-03
62.00	7.061347E-02	5.359457E-02	5.970751E-02	-8.759959E-03	162.00	1.800773E-02	1.901530E-02	-3.305967E-03	[illegible]
64.00	7.378932E-02	4.816332E-02	5.435591E-02	-8.163505E-03	164.00	1.831816E-02	1.910649E-02	-4.097721E-03	3.073097E-03
66.00	[illegible]	4.490213E-02	5.035913E-02	-7.925900E-03	166.00	1.907900E-02	1.954933E-02	-4.030323E-03	3.013077E-03
68.00	[illegible]	4.125045E-02	4.602073E-02	-6.950337E-03	168.00	1.957773E-02	1.990025E-02	-5.307705E-03	2.901005E-03
70.00	6.183595E-02	3.780999E-02	4.246304E-02	-6.426945E-03	170.00	1.732420E-02	1.504099E-02	-6.076400E-03	1.700730E-03
72.00	5.735022E-02	3.480524E-02	3.534004E-02	-5.913495E-03	172.00	1.566687E-02	1.007600E-02	-3.047600E-03	-6.011397E-03
74.00	5.437771E-02	3.207750E-02	3.576010E-02	-5.419193E-03	174.00	1.492513E-02	1.316914E-02	[illegible]	[illegible]
76.00	5.143327E-02	2.959950E-02	3.208300E-02	-4.989337E-03	176.00	1.516502E-02	1.339714E-02	-1.352060E-03	-1.355127E-03
78.00	4.964932E-02	2.734907E-02	2.813963E-02	-4.462320E-03	178.00	1.711597E-02	1.710594E-02	[illegible]	[illegible]
					180.00	1.600021E-02	[illegible]	[illegible]	[illegible]

TABLE A3. NORMALIZED PHASE MATRIX FOR SPHERICAL-SHELL PARTICLES AT A 75% RELATIVE HUMIDITY, λ=0.55μ

MI=1.620000-0.049000I, MS=1.334000-0.000000I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.078095E+01	1.078095E+01	1.078095E+01	-6.731868E-19
1.00	6.641261E+00	6.645761E+00	6.643285E+00	-2.394884E-02
2.00	3.604594E+00	3.690346E+00	3.606794E+00	-2.616290E-02
3.00	2.993609E+00	2.999254E+00	2.995490E+00	-2.594368E-02
4.00	2.012493E+00	2.017429E+00	2.013591E+00	-2.591415E-02
5.00	1.645880E+00	1.649632E+00	1.645553E+00	-2.561142E-02
6.00	1.380493E+00	1.393047E+00	1.388526E+00	-2.508231E-02
7.00	1.197687E+00	1.201925E+00	1.197220E+00	-2.431886E-02
8.00	1.049808E+00	1.052980E+00	1.049586E+00	-2.307815E-02
9.00	9.315084E-01	9.320502E-01	9.293728E-01	-2.169248E-02
10.00	8.358886E-01	8.341066E-01	8.317883E-01	-2.001377E-02
11.00	7.551508E-01	7.520002E-01	7.509156E-01	-1.770589E-02
12.00	6.926198E-01	6.851449E-01	6.864712E-01	-1.577631E-02
13.00	6.411422E-01	6.294507E-01	6.331524E-01	-1.506164E-02
14.00	5.971544E-01	5.820581E-01	5.876424E-01	-1.509608E-02
15.00	5.588125E-01	5.489245E-01	5.480827E-01	-1.546356E-02
16.00	5.249224E-01	5.056198E-01	5.136394E-01	-1.596641E-02
17.00	4.946378E-01	4.727679E-01	4.818810E-01	-1.645595E-02
18.00	4.671969E-01	4.440847E-01	4.536134E-01	-1.696457E-02
19.00	4.421693E-01	4.181381E-01	4.283455E-01	-1.743870E-02
20.00	4.192681E-01	3.944667E-01	4.049478E-01	-1.789924E-02
22.00	3.784133E-01	3.526608E-01	3.634797E-01	-1.855133E-02
24.00	3.431328E-01	3.168158E-01	3.277042E-01	-1.891142E-02
26.00	3.122367E-01	2.856416E-01	2.964711E-01	-1.907909E-02
28.00	2.850182E-01	2.581374E-01	2.688776E-01	-1.900727E-02
30.00	2.608429E-01	2.337278E-01	2.443235E-01	-1.875562E-02
32.00	2.391625E-01	2.119516E-01	2.223741E-01	-1.837498E-02
34.00	2.197322E-01	1.923960E-01	2.020430E-01	-1.781260E-02
36.00	2.022792E-01	1.747893E-01	1.848619E-01	-1.724806E-02
38.00	1.865639E-01	1.587729E-01	1.688644E-01	-1.659433E-02
40.00	1.722784E-01	1.443565E-01	1.542388E-01	-1.591597E-02
42.00	1.593293E-01	1.313174E-01	1.410236E-01	-1.520870E-02
44.00	1.476223E-01	1.194784E-01	1.290312E-01	-1.447286E-02
46.00	1.369251E-01	1.087104E-01	1.180888E-01	-1.376073E-02
48.00	1.271444E-01	9.895769E-02	1.081205E-01	-1.305860E-02
50.00	1.182846E-01	9.012167E-02	9.904743E-02	-1.231439E-02
52.00	1.101673E-01	8.207423E-02	9.075484E-02	-1.160444E-02
54.00	1.026944E-01	7.474687E-02	8.315190E-02	-1.092024E-02
56.00	9.589519E-02	6.812094E-02	7.622413E-02	-1.025613E-02
58.00	8.968501E-02	6.212550E-02	6.988930E-02	-9.591140E-03
60.00	8.397316E-02	5.666607E-02	6.407648E-02	-8.959948E-03
62.00	7.870784E-02	5.168551E-02	5.874548E-02	-8.365751E-03
64.00	7.388156E-02	4.721714E-02	5.386646E-02	-7.764998E-03
66.00	6.946261E-02	4.313891E-02	4.939937E-02	-7.190464E-03
68.00	6.535145E-02	3.944317E-02	4.527593E-02	-6.663493E-03
70.00	6.150541E-02	3.613053E-02	4.150116E-02	-6.126530E-03
72.00	5.814320E-02	3.312267E-02	3.832298E-02	-5.617119E-03
74.00	5.491558E-02	3.039757E-02	3.403567E-02	-5.147967E-03
76.00	5.195870E-02	2.797169E-02	3.189368E-02	-4.680401E-03
78.00	4.922443E-02	2.577334E-02	2.919289E-02	-4.237072E-03
80.00	4.668738E-02	2.379756E-02	2.668985E-02	-3.828563E-03
82.00	4.434409E-02	2.203891E-02	2.438383E-02	-3.420726E-03
84.00	4.217719E-02	2.046395E-02	2.226481E-02	-3.031887E-03
86.00	4.015656E-02	1.906059E-02	2.029969E-02	-2.668506E-03
88.00	3.828851E-02	1.782888E-02	1.848144E-02	-2.329495E-03
90.00	3.655624E-02	1.672148E-02	1.680372E-02	-1.991311E-03
92.00	3.493895E-02	1.575701E-02	1.524930E-02	-1.679532E-03
94.00	3.343738E-02	1.491647E-02	1.380688E-02	-1.387117E-03
96.00	3.205669E-02	1.418556E-02	1.247560E-02	-1.090465E-03
98.00	3.076612E-02	1.356625E-02	1.124163E-02	-8.288542E-04
100.00	2.956189E-02	1.302234E-02	1.009297E-02	-5.829813E-04
102.00	2.845244E-02	1.258118E-02	9.013591E-03	-3.331580E-04
104.00	2.743192E-02	1.222249E-02	8.016397E-03	-9.352209E-05
106.00	2.647523E-02	1.192262E-02	7.098422E-03	1.218661E-04
108.00	2.558953E-02	1.171240E-02	6.232742E-03	3.305369E-04
110.00	2.475314E-02	1.156520E-02	5.422462E-03	5.359507E-04
112.00	2.397575E-02	1.145648E-02	4.672039E-03	7.298726E-04
114.00	2.327183E-02	1.142752E-02	3.970245E-03	9.103599E-04
116.00	2.260342E-02	1.145471E-02	3.311365E-03	1.177258E-03
118.00	2.198723E-02	1.151212E-02	2.699441E-03	1.242123E-03
120.00	2.143732E-02	1.162409E-02	2.122412E-03	1.394798E-03
122.00	2.091675E-02	1.177331E-02	1.578732E-03	1.526516E-03
124.00	2.043570E-02	1.197627E-02	1.[illegible]E-03	1.6613[illegible]E-03
126.00	2.001573E-02	1.222014E-02	5.874533E-04	1.790032E-03
128.00	1.964179E-02	1.248829E-02	1.385568E-04	1.909709E-03
130.00	1.929372E-02	1.278369E-02	-2.882063E-04	2.003394E-03
132.00	1.897124E-02	1.312122E-02	-6.957513E-04	2.099372E-03
134.00	1.871540E-02	1.350485E-02	-1.085239E-03	2.205641E-03
136.00	1.847743E-02	1.390333E-02	-1.446515E-03	2.287287E-03
138.00	1.827646E-02	1.432053E-02	-1.796656E-03	2.350794E-03
140.00	1.811166E-02	1.476782E-02	-2.142819E-03	2.397245E-03
142.00	1.797539E-02	1.524655E-02	-2.479357E-03	2.43631[illegible]E-03
144.00	1.786610E-02	1.572483E-02	-2.797161E-03	2.466504E-03
146.00	1.783243E-02	1.613391E-02	-3.105120E-03	2.474942E-03
148.00	1.783059E-02	1.664830E-02	-3.420668E-03	2.461302E-03
150.00	1.784104E-02	1.710741E-02	-3.753835E-03	2.400499E-03
152.00	1.793283E-02	1.752109E-02	-4.066797E-03	2.355505E-03
154.00	1.810869E-02	1.790741E-02	-4.398381E-03	2.306630E-03
156.00	1.830421E-02	1.823976E-02	-4.724394E-03	2.237752E-03
158.00	1.857146E-02	1.848519E-02	-5.054137E-03	2.165544E-03
160.00	1.894596E-02	1.871416E-02	-5.390031E-03	2.201032E-03
162.00	1.937821E-02	1.904140E-02	-5.721836E-03	2.312216E-03
164.00	1.971667E-02	1.937451E-02	-6.072278E-03	2.468891E-03
166.00	1.978844E-02	1.969363E-02	-6.585554E-03	2.574333E-03
168.00	1.967301E-02	1.940587E-02	-7.206669E-03	2.430480E-03
170.00	1.850418E-02	1.922352E-02	-8.273699E-03	1.640459E-03
172.00	1.786103E-02	1.773364E-02	-9.731864E-03	1.036133E-04
174.00	1.576564E-02	1.616976E-02	-1.184721E-02	-1.347553E-03
176.00	1.621686E-02	1.639119E-02	-1.459452E-02	-1.552185E-03
178.00	1.839737E-02	1.841052E-02	-1.779547E-02	-7.059309E-04
180.00	2.022418E-02	2.022418E-02	-2.022418E-02	-3.439603E-17

TABLE A4. NORMALIZED PHASE MATRIX FOR SPHERICAL-SHELL PARTICLES AT A 75% RELATIVE HUMIDITY, λ=0.70u

MI=1.610000-0.0500001, MS=1.3:3600-0.0000001

SCATTERING ANGLE	I1	I2	I3	I4
0.00	6.98e+01	6.98e+01	6.98e+01	-9.23e-15
1.00	6.98e+01	6.98e+01	6.98e+01	-1.34e-02
2.00	3.78e+00	3.76e+00	3.76e+00	-2.74e-02
3.00	2.06e+00	2.06e+00	2.06e+00	-2.77e-02
4.00	2.00e+00	2.00e+00	2.00e+00	-2.78e-02
5.00	1.98e+00	1.98e+00	1.98e+00	-2.78e-02
6.00	1.96e+00	1.96e+00	1.96e+00	-2.78e-02
7.00	1.94e+00	1.94e+00	1.94e+00	-2.78e-02
8.00	1.92e+00	1.92e+00	1.92e+00	-2.78e-02
9.00	1.90e+00	1.90e+00	1.90e+00	-2.78e-02
10.00	1.88e+00	1.88e+00	1.88e+00	-2.78e-02
11.00	1.86e+00	1.86e+00	1.86e+00	-2.78e-02
12.00	1.84e+00	1.84e+00	1.84e+00	-2.78e-02
13.00	1.82e+00	1.82e+00	1.82e+00	-2.78e-02
14.00	1.80e+00	1.80e+00	1.80e+00	-2.78e-02
15.00	1.78e+00	1.78e+00	1.78e+00	-2.78e-02
16.00	1.76e+00	1.76e+00	1.76e+00	-2.78e-02
17.00	1.74e+00	1.74e+00	1.74e+00	-2.78e-02
18.00	1.72e+00	1.72e+00	1.72e+00	-2.78e-02
19.00	1.70e+00	1.70e+00	1.70e+00	-2.78e-02
20.00	1.68e+00	1.68e+00	1.68e+00	-2.78e-02
21.00	1.66e+00	1.66e+00	1.66e+00	-2.78e-02
22.00	1.64e+00	1.64e+00	1.64e+00	-2.78e-02
23.00	1.62e+00	1.62e+00	1.62e+00	-2.78e-02
24.00	1.60e+00	1.60e+00	1.60e+00	-2.78e-02
25.00	1.58e+00	1.58e+00	1.58e+00	-2.78e-02
26.00	1.56e+00	1.56e+00	1.56e+00	-2.78e-02
27.00	1.54e+00	1.54e+00	1.54e+00	-2.78e-02
28.00	1.52e+00	1.52e+00	1.52e+00	-2.78e-02
29.00	1.50e+00	1.50e+00	1.50e+00	-2.78e-02
30.00	1.48e+00	1.48e+00	1.48e+00	-2.78e-02
31.00	1.46e+00	1.46e+00	1.46e+00	-2.78e-02
32.00	1.44e+00	1.44e+00	1.44e+00	-2.78e-02
33.00	1.42e+00	1.42e+00	1.42e+00	-2.78e-02
34.00	1.40e+00	1.40e+00	1.40e+00	-2.78e-02
35.00	1.38e+00	1.38e+00	1.38e+00	-2.78e-02
36.00	1.36e+00	1.36e+00	1.36e+00	-2.78e-02
37.00	1.34e+00	1.34e+00	1.34e+00	-2.78e-02
38.00	1.32e+00	1.32e+00	1.32e+00	-2.78e-02
39.00	1.30e+00	1.30e+00	1.30e+00	-2.78e-02
40.00	1.28e+00	1.28e+00	1.28e+00	-2.78e-02
41.00	1.26e+00	1.26e+00	1.26e+00	-2.78e-02
42.00	1.24e+00	1.24e+00	1.24e+00	-2.78e-02
43.00	1.22e+00	1.22e+00	1.22e+00	-2.78e-02
44.00	1.20e+00	1.20e+00	1.20e+00	-2.78e-02
45.00	1.18e+00	1.18e+00	1.18e+00	-2.78e-02
46.00	1.16e+00	1.16e+00	1.16e+00	-2.78e-02
47.00	1.14e+00	1.14e+00	1.14e+00	-2.78e-02
48.00	1.12e+00	1.12e+00	1.12e+00	-2.78e-02
49.00	1.10e+00	1.10e+00	1.10e+00	-2.78e-02
50.00	1.08e+00	1.08e+00	1.08e+00	-2.78e-02
51.00	1.06e+00	1.06e+00	1.06e+00	-2.78e-02
52.00	1.04e+00	1.04e+00	1.04e+00	-2.78e-02
53.00	1.02e+00	1.02e+00	1.02e+00	-2.78e-02
54.00	1.00e+00	1.00e+00	1.00e+00	-2.78e-02
55.00	9.80e-01	9.80e-01	9.80e-01	-2.78e-02
56.00	9.60e-01	9.60e-01	9.60e-01	-2.78e-02
57.00	9.40e-01	9.40e-01	9.40e-01	-2.78e-02
58.00	9.20e-01	9.20e-01	9.20e-01	-2.78e-02
59.00	9.00e-01	9.00e-01	9.00e-01	-2.78e-02
60.00	8.80e-01	8.80e-01	8.80e-01	-2.78e-02
61.00	8.60e-01	8.60e-01	8.60e-01	-2.78e-02
62.00	8.40e-01	8.40e-01	8.40e-01	-2.78e-02
63.00	8.20e-01	8.20e-01	8.20e-01	-2.78e-02
64.00	8.00e-01	8.00e-01	8.00e-01	-2.78e-02
65.00	7.80e-01	7.80e-01	7.80e-01	-2.78e-02
66.00	7.60e-01	7.60e-01	7.60e-01	-2.78e-02
67.00	7.40e-01	7.40e-01	7.40e-01	-2.78e-02
68.00	7.20e-01	7.20e-01	7.20e-01	-2.78e-02
69.00	7.00e-01	7.00e-01	7.00e-01	-2.78e-02
70.00	6.80e-01	6.80e-01	6.80e-01	-2.78e-02
71.00	6.60e-01	6.60e-01	6.60e-01	-2.78e-02
72.00	6.40e-01	6.40e-01	6.40e-01	-2.78e-02
73.00	6.20e-01	6.20e-01	6.20e-01	-2.78e-02
74.00	6.00e-01	6.00e-01	6.00e-01	-2.78e-02
75.00	5.80e-01	5.80e-01	5.80e-01	-2.78e-02
76.00	5.60e-01	5.60e-01	5.60e-01	-2.78e-02
77.00	5.40e-01	5.40e-01	5.40e-01	-2.78e-02
78.00	5.20e-01	5.20e-01	5.20e-01	-2.78e-02
79.00	5.00e-01	5.00e-01	5.00e-01	-2.78e-02
80.00	4.80e-01	4.80e-01	4.80e-01	-2.78e-02
81.00	4.60e-01	4.60e-01	4.60e-01	-2.78e-02
82.00	4.40e-01	4.40e-01	4.40e-01	-2.78e-02
83.00	4.20e-01	4.20e-01	4.20e-01	-2.78e-02
84.00	4.00e-01	4.00e-01	4.00e-01	-2.78e-02
85.00	3.80e-01	3.80e-01	3.80e-01	-2.78e-02
86.00	3.60e-01	3.60e-01	3.60e-01	-2.78e-02
87.00	3.40e-01	3.40e-01	3.40e-01	-2.78e-02
88.00	3.20e-01	3.20e-01	3.20e-01	-2.78e-02
89.00	3.00e-01	3.00e-01	3.00e-01	-2.78e-02
90.00	2.80e-01	2.80e-01	2.80e-01	-2.78e-02
91.00	2.60e-01	2.60e-01	2.60e-01	-2.78e-02
92.00	2.40e-01	2.40e-01	2.40e-01	-2.78e-02
93.00	2.20e-01	2.20e-01	2.20e-01	-2.78e-02
94.00	2.00e-01	2.00e-01	2.00e-01	-2.78e-02
95.00	1.80e-01	1.80e-01	1.80e-01	-2.78e-02
96.00	1.60e-01	1.60e-01	1.60e-01	-2.78e-02
97.00	1.40e-01	1.40e-01	1.40e-01	-2.78e-02
98.00	1.20e-01	1.20e-01	1.20e-01	-2.78e-02
99.00	1.00e-01	1.00e-01	1.00e-01	-2.78e-02
100.00	8.00e-02	8.00e-02	8.00e-02	-2.78e-02
101.00	6.00e-02	6.00e-02	6.00e-02	-2.78e-02
102.00	4.00e-02	4.00e-02	4.00e-02	-2.78e-02
103.00	2.00e-02	2.00e-02	2.00e-02	-2.78e-02
104.00	0.00e+00	0.00e+00	0.00e+00	0.00e+00

SCATTERING ANGLE	I1	I2	I3	I4
0.00	6.98e+01	6.98e+01	6.98e+01	-9.23e-15
1.00	6.98e+01	6.98e+01	6.98e+01	-1.34e-02
2.00	3.78e+00	3.76e+00	3.76e+00	-2.74e-02
3.00	2.06e+00	2.06e+00	2.06e+00	-2.77e-02
4.00	2.00e+00	2.00e+00	2.00e+00	-2.78e-02
5.00	1.98e+00	1.98e+00	1.98e+00	-2.78e-02
6.00	1.96e+00	1.96e+00	1.96e+00	-2.78e-02
7.00	1.94e+00	1.94e+00	1.94e+00	-2.78e-02
8.00	1.92e+00	1.92e+00	1.92e+00	-2.78e-02
9.00	1.90e+00	1.90e+00	1.90e+00	-2.78e-02
10.00	1.88e+00	1.88e+00	1.88e+00	-2.78e-02
11.00	1.86e+00	1.86e+00	1.86e+00	-2.78e-02
12.00	1.84e+00	1.84e+00	1.84e+00	-2.78e-02
13.00	1.82e+00	1.82e+00	1.82e+00	-2.78e-02
14.00	1.80e+00	1.80e+00	1.80e+00	-2.78e-02
15.00	1.78e+00	1.78e+00	1.78e+00	-2.78e-02
16.00	1.76e+00	1.76e+00	1.76e+00	-2.78e-02
17.00	1.74e+00	1.74e+00	1.74e+00	-2.78e-02
18.00	1.72e+00	1.72e+00	1.72e+00	-2.78e-02
19.00	1.70e+00	1.70e+00	1.70e+00	-2.78e-02
20.00	1.68e+00	1.68e+00	1.68e+00	-2.78e-02
21.00	1.66e+00	1.66e+00	1.66e+00	-2.78e-02
22.00	1.64e+00	1.64e+00	1.64e+00	-2.78e-02
23.00	1.62e+00	1.62e+00	1.62e+00	-2.78e-02
24.00	1.60e+00	1.60e+00	1.60e+00	-2.78e-02
25.00	1.58e+00	1.58e+00	1.58e+00	-2.78e-02
26.00	1.56e+00	1.56e+00	1.56e+00	-2.78e-02
27.00	1.54e+00	1.54e+00	1.54e+00	-2.78e-02
28.00	1.52e+00	1.52e+00	1.52e+00	-2.78e-02
29.00	1.50e+00	1.50e+00	1.50e+00	-2.78e-02
30.00	1.48e+00	1.48e+00	1.48e+00	-2.78e-02
31.00	1.46e+00	1.46e+00	1.46e+00	-2.78e-02
32.00	1.44e+00	1.44e+00	1.44e+00	-2.78e-02
33.00	1.42e+00	1.42e+00	1.42e+00	-2.78e-02
34.00	1.40e+00	1.40e+00	1.40e+00	-2.78e-02
35.00	1.38e+00	1.38e+00	1.38e+00	-2.78e-02
36.00	1.36e+00	1.36e+00	1.36e+00	-2.78e-02
37.00	1.34e+00	1.34e+00	1.34e+00	-2.78e-02
38.00	1.32e+00	1.32e+00	1.32e+00	-2.78e-02
39.00	1.30e+00	1.30e+00	1.30e+00	-2.78e-02
40.00	1.28e+00	1.28e+00	1.28e+00	-2.78e-02
41.00	1.26e+00	1.26e+00	1.26e+00	-2.78e-02
42.00	1.24e+00	1.24e+00	1.24e+00	-2.78e-02
43.00	1.22e+00	1.22e+00	1.22e+00	-2.78e-02
44.00	1.20e+00	1.20e+00	1.20e+00	-2.78e-02
45.00	1.18e+00	1.18e+00	1.18e+00	-2.78e-02
46.00	1.16e+00	1.16e+00	1.16e+00	-2.78e-02
47.00	1.14e+00	1.14e+00	1.14e+00	-2.78e-02
48.00	1.12e+00	1.12e+00	1.12e+00	-2.78e-02
49.00	1.10e+00	1.10e+00	1.10e+00	-2.78e-02
50.00	1.08e+00	1.08e+00	1.08e+00	-2.78e-02
51.00	1.06e+00	1.06e+00	1.06e+00	-2.78e-02
52.00	1.04e+00	1.04e+00	1.04e+00	-2.78e-02
53.00	1.02e+00	1.02e+00	1.02e+00	-2.78e-02
54.00	1.00e+00	1.00e+00	1.00e+00	-2.78e-02
55.00	9.80e-01	9.80e-01	9.80e-01	-2.78e-02
56.00	9.60e-01	9.60e-01	9.60e-01	-2.78e-02
57.00	9.40e-01	9.40e-01	9.40e-01	-2.78e-02
58.00	9.20e-01	9.20e-01	9.20e-01	-2.78e-02
59.00	9.00e-01	9.00e-01	9.00e-01	-2.78e-02
60.00	8.80e-01	8.80e-01	8.80e-01	-2.78e-02
61.00	8.60e-01	8.60e-01	8.60e-01	-2.78e-02
62.00	8.40e-01	8.40e-01	8.40e-01	-2.78e-02
63.00	8.20e-01	8.20e-01	8.20e-01	-2.78e-02
64.00	8.00e-01	8.00e-01	8.00e-01	-2.78e-02
65.00	7.80e-01	7.80e-01	7.80e-01	-2.78e-02
66.00	7.60e-01	7.60e-01	7.60e-01	-2.78e-02
67.00	7.40e-01	7.40e-01	7.40e-01	-2.78e-02
68.00	7.20e-01	7.20e-01	7.20e-01	-2.78e-02
69.00	7.00e-01	7.00e-01	7.00e-01	-2.78e-02
70.00	6.80e-01	6.80e-01	6.80e-01	-2.78e-02
71.00	6.60e-01	6.60e-01	6.60e-01	-2.78e-02
72.00	6.40e-01	6.40e-01	6.40e-01	-2.78e-02
73.00	6.20e-01	6.20e-01	6.20e-01	-2.78e-02
74.00	6.00e-01	6.00e-01	6.00e-01	-2.78e-02
75.00	5.80e-01	5.80e-01	5.80e-01	-2.78e-02
76.00	5.60e-01	5.60e-01	5.60e-01	-2.78e-02
77.00	5.40e-01	5.40e-01	5.40e-01	-2.78e-02
78.00	5.20e-01	5.20e-01	5.20e-01	-2.78e-02
79.00	5.00e-01	5.00e-01	5.00e-01	-2.78e-02
80.00	4.80e-01	4.80e-01	4.80e-01	-2.78e-02
81.00	4.60e-01	4.60e-01	4.60e-01	-2.78e-02
82.00	4.40e-01	4.40e-01	4.40e-01	-2.78e-02
83.00	4.20e-01	4.20e-01	4.20e-01	-2.78e-02
84.00	4.00e-01	4.00e-01	4.00e-01	-2.78e-02
85.00	3.80e-01	3.80e-01	3.80e-01	-2.78e-02
86.00	3.60e-01	3.60e-01	3.60e-01	-2.78e-02
87.00	3.40e-01	3.40e-01	3.40e-01	-2.78e-02
88.00	3.20e-01	3.20e-01	3.20e-01	-2.78e-02
89.00	3.00e-01	3.00e-01	3.00e-01	-2.78e-02
90.00	2.80e-01	2.80e-01	2.80e-01	-2.78e-02
91.00	2.60e-01	2.60e-01	2.60e-01	-2.78e-02
92.00	2.40e-01	2.40e-01	2.40e-01	-2.78e-02
93.00	2.20e-01	2.20e-01	2.20e-01	-2.78e-02
94.00	2.00e-01	2.00e-01	2.00e-01	-2.78e-02
95.00	1.80e-01	1.80e-01	1.80e-01	-2.78e-02
96.00	1.60e-01	1.60e-01	1.60e-01	-2.78e-02
97.00	1.40e-01	1.40e-01	1.40e-01	-2.78e-02
98.00	1.20e-01	1.20e-01	1.20e-01	-2.78e-02
99.00	1.00e-01	1.00e-01	1.00e-01	-2.78e-02
100.00	8.00e-02	8.00e-02	8.00e-02	-2.78e-02
101.00	6.00e-02	6.00e-02	6.00e-02	-2.78e-02
102.00	4.00e-02	4.00e-02	4.00e-02	-2.78e-02
103.00	2.00e-02	2.00e-02	2.00e-02	-2.78e-02
104.00	0.00e+00	0.00e+00	0.00e+00	0.00e+00

M1=1.610000-0.072000I, MS=1.324000-0.000000I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	6.741541E+00	6.741541E+00	6.741541E+00	-4.333333E-15
1.00	5.703523E+00	5.705089E+00	5.704067E+00	-1.285100E-02
2.00	3.874412E+00	3.880774E+00	3.877474E+00	-2.744556E-02
3.00	2.721436E+00	2.728925E+00	2.724122E+00	-2.474901E-02
4.00	2.122124E+00	2.129177E+00	2.124117E+00	-2.916818E-02
5.00	1.729897E+00	1.735724E+00	1.730377E+00	-2.733057E-02
6.00	1.457837E+00	1.462900E+00	1.457713E+00	-2.011047E-02
7.00	1.292685E+00	1.257541E+00	1.252566E+00	-2.506906E-02
8.00	1.093979E+00	1.097588E+00	1.093160E+00	-2.307035E-02
9.00	9.607373E-01	9.644435E-01	9.6496[illegible]8E-01	-2.239500E-02
10.00	8.623910E-01	8.621384E-01	8.596077E-01	-2.044253E-02
11.00	7.780008E-01	7.745720E-01	7.735220E-01	-1.772142E-02
12.00	7.120327E-01	7.036408E-01	7.050269E-01	-1.574941E-02
13.00	6.577867E-01	6.447681E-01	6.493911E-01	-1.52[illegible]E-02
14.00	6.113870E-01	5.969922E-01	6.011505E-01	-1.522711E-02
15.00	5.711166E-01	5.512583E-01	5.594402E-01	-1.548030E-02
16.00	5.354233E-01	5.131698E-01	5.220692E-01	-1.608943E-02
17.00	5.035985E-01	4.795020E-01	4.898677E-01	-1.661821E-02
18.00	4.748891E-01	4.492797E-01	4.603447E-01	-1.720014E-02
19.00	4.487327E-01	4.228439E-01	4.330316E-01	-1.774012E-02
20.00	4.248486E-01	3.972505E-01	4.092121E-01	-1.821733E-02
22.00	3.823965E-01	3.537408E-01	3.660889E-01	-1.887114E-02
24.00	3.458332E-01	3.165839E-01	3.291699E-01	-1.931175E-02
26.00	3.141713E-01	2.843694E-01	2.968641E-01	-1.951209E-02
28.00	2.861985E-01	2.561525E-01	2.685276E-01	-1.943102E-02
30.00	2.614579E-01	2.312124E-01	2.434357E-01	-1.910471E-02
32.00	2.394962E-01	2.089903E-01	2.21[illegible]658E-01	-1.877591E-02
34.00	2.147940E-01	1.891344E-01	2.010636E-01	-1.824225E-02
36.00	2.021362E-01	1.713049E-01	1.830910E-01	-1.765252E-02
38.00	1.862896E-01	1.552576E-01	1.660875E-01	-1.760588E-02
40.00	1.719365E-01	1.408011E-01	1.522010E-01	-1.63[illegible]E-02
42.00	1.589747E-01	1.277406E-01	1.390182E-01	-1.559437E-02
44.00	1.472477E-01	1.159039E-01	1.269908E-01	-1.465601E-02
46.00	1.365846E-01	1.052267E-01	1.160363E-01	-1.413232E-02
48.00	1.268921E-01	9.555421E-02	1.061735E-01	-1.340065E-02
50.00	1.180440E-01	8.677372E-02	9.712459E-02	-1.266813E-02
52.00	1.099803E-01	7.882273E-02	8.889105E-02	-1.196278E-02
54.00	1.020303E-01	7.161942E-02	8.137239E-02	-1.129834E-02
56.00	9.508392E-02	6.510435E-02	7.449863E-02	-1.059278E-02
58.00	8.871564E-02	5.917480E-02	6.821457E-02	-9.969970E-03
60.00	8.406692E-02	5.381270E-02	6.247163E-02	-9.298958E-03
62.00	7.888405E-02	4.897465E-02	5.719083E-02	-8.082077E-03
64.00	7.411213E-02	4.457869E-02	5.237150E-02	-8.084935E-03
66.00	6.974818E-02	4.059592E-02	4.793083E-02	-7.315204E-03
68.00	6.571537E-02	3.701589E-02	4.386727E-02	-6.906892E-03
70.00	6.199106E-02	3.378074E-02	4.013049E-02	-6.438804E-03
72.00	5.857150E-02	3.085221E-02	3.669478E-02	-5.936147E-03
74.00	5.541388E-02	2.822270E-02	3.351633E-02	-5.454496E-03
76.00	5.248034E-02	2.586490E-02	3.060104E-02	-4.994793E-03
78.00	4.979231E-02	2.374290E-02	2.790777E-02	-4.555906E-03

SCATTERING ANGLE	I1	I2	I3	I4
80.00	4.729596E-02	2.183593E-02	2.542121E-02	-4.136[illegible]E-03
82.00	4.490344E-02	2.019415E-02	2.313125E-02	-3.733005E-03
84.00	4.283412E-02	1.883[illegible]E-02	2.101[illegible]77E-02	-3.338744E-03
86.00	4.084302E-02	1.729005E-02	1.904923E-02	-2.994[illegible]E-03
88.00	3.900000E-02	1.611749E-02	1.720732E-02	-2.643615E-03
90.00	3.726117E-02	1.496733E-02	1.553302E-02	-2.313813E-03
92.00	3.565662E-02	1.410893E-02	1.399[illegible]E-02	-2.[illegible]E-03
94.00	3.421147E-02	1.338221E-02	1.254613E-02	-1.765201E-03
96.00	3.204109E-02	1.274402E-02	1.119770E-02	-1.420515E-03
98.00	3.155290E-02	1.213702E-02	9.948020E-03	-1.153253E-03
100.00	3.037040E-02	1.165133E-02	8.781652E-03	-8.499404E-04
102.00	2.927993E-02	1.125964E-02	7.695243E-03	-6.554037E-04
104.00	2.824177E-02	1.095110E-02	6.583480E-03	-4.229724E-04
106.00	2.723244E-02	1.071170E-02	5.637142E-03	-1.391434E-04
108.00	2.646835E-02	1.053996E-02	4.052735E-03	7.909594E-05
110.00	2.557132E-02	1.044325E-02	[illegible]	[illegible]
112.00	2.480477E-02	1.039300E-02	3.254128E-03	3.976517E-04
114.00	2.409671E-02	1.039492E-02	2.533914E-03	5.759429E-04
116.00	2.342619E-02	1.046094E-02	1.652352E-03	7.422232E-04
118.00	2.281182E-02	1.057910E-02	1.01[illegible]754E-03	9.031059E-04
120.00	2.225560E-02	1.071267E-02	6.218722E-04	1.046430E-03
122.00	2.172037E-02	1.090898E-02	5.721349E-05	1.191594E-03
124.00	2.125090E-02	1.114293E-02	-4.761[illegible]E-04	1.325590E-03
126.00	2.082139E-02	1.140950E-02	-9.773657E-04	1.455433E-03
128.00	2.041677E-02	1.171553E-02	-1.452700E-03	1.573371E-03
130.00	2.006007E-02	1.204073E-02	-1.900559E-03	1.679105E-03
132.00	1.973360E-02	1.242113E-02	-2.325963E-03	1.773047E-03
134.00	1.943925E-02	1.281711E-02	-2.737467E-03	1.860744E-03
136.00	1.919196E-02	1.322993E-02	-3.123949E-03	1.943708E-03
138.00	1.896059E-02	1.367039E-02	-3.486981E-03	2.012302E-03
140.00	1.877206E-02	1.412387E-02	-3.941251E-03	2.065134E-03
142.00	1.861328E-02	1.461242E-02	-4.108387E-03	2.110132E-03
144.00	1.847008E-02	1.510603E-02	-4.521007E-03	2.142549E-03
146.00	1.834722E-02	1.560409E-02	-4.809227E-03	2.157527E-03
148.00	1.934314E-02	1.608519E-02	-5.163265E-03	2.153323E-03
150.00	1.929296E-02	1.657323E-02	-5.477099E-03	2.132949E-03
152.00	1.831945E-02	1.703104E-02	-5.785497E-03	2.097705E-03
154.00	1.839316E-02	1.747724E-02	-6.101429E-03	2.052717E-03
156.00	1.853449E-02	1.786961E-02	-6.415386E-03	2.001950E-03
158.00	1.865131E-02	1.823981E-02	-6.719210E-03	1.954755E-03
160.00	1.884700E-02	1.857584E-02	-7.030520E-03	1.936643E-03
162.00	1.908161E-02	1.889[illegible]E-02	-7.339147E-03	1.953[illegible]E-03
164.00	1.927025E-02	1.920202E-02	-7.673590E-03	1.907408E-03
166.00	1.934591E-02	1.948321E-02	-8.071541E-03	2.003395E-03
168.00	1.916190E-02	1.950641E-02	-9.059674E-03	1.964919E-03
170.00	1.894403E-02	1.916260E-02	-9.559584E-03	1.290508E-03
172.00	1.737030E-02	1.862441E-02	-1.008507E-02	1.172423E-04
174.00	1.622474E-02	1.666705E-02	-1.250062E-02	-1.154472E-03
176.00	1.645023E-02	1.074379E-02	-1.404472E-02	-1.376279E-03
178.00	1.835724E-02	1.834402E-02	-1.773460E-02	-6.679644E-04
180.00	2.002481E-02	2.012481E-02	-2.002481E-02	-3.237532E-17

TABLE A5. NORMALIZED PHASE MATRIX FOR SPHERICAL-SHELL PARTICLES AT A 75% RELATIVE HUMIDITY, λ=0.55μ

MI=1.620000-0.049000I, MS=1.334000-0.000000I

TABLE A6. NORMALIZED PHASE MATRIX FOR HOMOGENEOUS PARTICLES AT 75% RELATIVE HUMIDITY, λ=0.30μ

MI=1.489450-0.016330I, MS=1.489450-0.016330I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.721350E+01	1.721350E+01	1.721350E+01	-1.442137E-14
1.00	6.369314E+00	6.370651E+00	6.369812E+00	-2.347595E-02
2.00	3.559807E+00	3.561375E+00	3.560234E+00	-3.020255E-02
3.00	2.550840E+00	2.552572E+00	2.551179E+00	-3.059937E-02
4.00	2.321717E+00	2.323525E+00	2.321905E+00	-3.071536E-02
5.00	1.690332E+00	[illegible]	1.690333E+00	-3.041956E-02
6.00	1.460132E+00	1.461002E+00	1.459873E+00	-3.031249E-02
7.00	1.280815E+00	1.291697E+00	1.280519E+00	-3.092352E-02
8.00	1.135562E+00	1.137105E+00	1.135476E+00	-3.047346E-02
9.00	1.047087E+00	1.049050E+00	1.046570E+00	-3.037043E-02
10.00	9.530341E-01	9.552649E-01	9.565059E-01	-3.035920E-02
11.00	8.813795E-01	8.820157E-01	8.804903E-01	-3.030784E-02
12.00	8.160357E-01	8.167122E-01	8.139041E-01	-3.000447E-02
13.00	7.562915E-01	7.580505E-01	7.558190E-01	-2.974907E-02
14.00	7.070560E-01	7.078056E-01	7.042165E-01	-2.933900E-02
15.00	6.611281E-01	6.607640E-01	6.579446E-01	-2.945023E-02
16.00	6.136329E-01	6.108233E-01	[illegible]	[illegible]
17.00	5.818734E-01	5.866067E-01	5.780595E-01	-2.801592E-02
18.00	5.473374E-01	5.455652E-01	5.431094E-01	-2.751910E-02
19.00	5.155493E-01	5.132708E-01	5.109029E-01	-2.649990E-02
20.00	4.861200E-01	4.834035E-01	4.812014E-01	-2.040040E-02
22.00	4.335339E-01	4.298289E-01	4.280741E-01	-2.537505E-02
24.00	3.870310E-01	3.831601E-01	3.817040E-01	-2.425304E-02
26.00	3.477936E-01	3.421930E-01	3.411326E-01	-2.310351E-02
28.00	3.125133E-01	3.060177E-01	3.052732E-01	-2.193374E-02
30.00	2.812977E-01	2.739530E-01	2.734497E-01	-2.075346E-02
32.00	2.535571E-01	2.454540E-01	2.452052E-01	-1.957037E-02
34.00	2.283617E-01	2.208579E-01	2.201215E-01	[illegible]
36.00	2.071204E-01	1.974614E-01	1.976945E-01	-1.722031E-02
38.00	1.874221E-01	1.771005E-01	1.770030E-01	[illegible]
40.00	1.694850E-01	1.590797E-01	1.597475E-01	-1.505008E-02
42.00	1.542244E-01	1.429042E-01	1.437044E-01	-1.395581E-02
44.00	1.401721E-01	1.284382E-01	1.293449E-01	-1.294939E-02
46.00	1.275663E-01	1.155111E-01	1.164714E-01	-1.190027E-02
48.00	1.162480E-01	1.039261E-01	1.049250E-01	-1.105514E-02
50.00	1.060625E-01	9.350572E-02	9.456470E-02	-1.013049E-02
52.00	9.694524E-02	8.420471E-02	8.520207E-02	-9.391400E-03
54.00	8.972321E-02	7.590228E-02	7.691375E-02	-8.561375E-03
56.00	8.131278E-02	6.854394E-02	6.930490E-02	-7.820008E-03
58.00	7.402179E-02	6.100049E-02	6.202904E-02	-7.124032E-03
60.00	6.357204E-02	5.393004E-02	5.654140E-02	-6.400223E-03
62.00	6.310209E-02	5.000166E-02	5.105003E-02	-5.847030E-03
64.00	5.815506E-02	4.583238E-02	4.611754E-02	-5.259115E-03
66.00	5.307704E-02	4.196175E-02	4.160413E-02	-4.705071E-03
68.00	4.961703E-02	3.773772E-02	3.740052E-02	-4.193024E-03
70.00	4.592300E-02	3.431671E-02	3.401031E-02	-3.708375E-03
72.00	4.257402E-02	3.126009E-02	3.073967E-02	-3.025943E-03
74.00	3.952182E-02	2.853144E-02	2.777022E-02	-2.832710E-03
76.00	3.674635E-02	2.569519E-02	2.503752E-02	-2.423393E-03
78.00	3.421490E-02	2.391811E-02	2.267556E-02	-2.049399E-03

SCATTERING ANGLE	I1	I2	I3	I4
80.00	3.190530E-02	2.197316E-02	2.048395E-02	-1.694442E-03
82.00	2.979392E-02	2.023081E-02	1.849013E-02	-1.302360E-03
84.00	2.780139E-02	1.309090E-02	1.669702E-02	-1.051037E-03
86.00	2.603343E-02	1.732924E-02	1.500910E-02	-7.943244E-04
88.00	2.447709E-02	1.611530E-02	1.358547E-02	-4.712294E-04
90.00	2.299260E-02	1.513934E-02	1.224449E-02	-2.029930E-04
92.00	2.164565E-02	1.400547E-02	1.102763E-02	4.083129E-05
94.00	2.042210E-02	1.324523E-02	9.321632E-03	2.452339E-04
96.00	1.920430E-02	1.225105E-02	8.914513E-03	5.039324E-04
98.00	1.821330E-02	1.161477E-02	7.939093E-03	7.623150E-04
100.00	1.725365E-02	1.131772E-02	7.101312E-03	9.530334E-04
102.00	1.637550E-02	1.003903E-02	6.401093E-03	1.153522E-03
104.00	1.550937E-02	1.042457E-02	5.700092E-03	1.324077E-03
106.00	1.483015E-02	1.006630E-02	5.075093E-03	1.505002E-03
108.00	1.415145E-02	9.806593E-03	4.432490E-03	1.603095E-03
110.00	1.352947E-02	9.505304E-03	3.901501E-03	1.951039E-03
112.00	1.290191E-02	9.417293E-03	3.472502E-03	2.017703E-03
114.00	1.244544E-02	9.290077E-03	3.021927E-03	2.100997E-03
116.00	1.197978E-02	9.227060E-03	2.600344E-03	2.340330E-03
118.00	1.154987E-02	9.202192E-03	2.221510E-03	2.498024E-03
120.00	1.115591E-02	9.223499E-03	1.963445E-03	2.553430E-03
122.00	1.041935E-02	9.289496E-03	1.529501E-03	2.337540E-03
124.00	1.051022E-02	[illegible]	1.161139E-03	2.960645E-03
126.00	1.023713E-02	9.557216E-03	9.194043E-04	3.014535E-03
128.00	9.999271E-03	9.760772E-03	6.371203E-04	3.276040E-03
130.00	9.795002E-03	1.021139E-02	3.004043E-04	3.420200E-03
132.00	9.625634E-03	[illegible]	[illegible]	3.589175E-03
134.00	9.406107E-03	1.085607E-02	-1.517735E-04	3.752135E-03
136.00	[illegible]	[illegible]	-4.903050E-04	3.916737E-03
138.00	9.303509E-03	1.151094E-02	-8.540357E-04	4.083305E-03
140.00	9.257463E-03	1.263470E-02	[illegible]	[illegible]
142.00	9.243625E-03	1.281489E-02	[illegible]	[illegible]
144.00	9.260332E-03	1.325914E-02	[illegible]	[illegible]
146.00	9.311301E-03	1.396879E-02	-1.732[illegible]E-03	[illegible]
148.00	9.331139E-03	1.474126E-02	[illegible]	[illegible]
150.00	9.499847E-03	[illegible]	[illegible]	5.052213E-03
152.00	9.634159E-03	[illegible]	[illegible]	[illegible]
154.00	9.797613E-03	1.729312E-02	[illegible]	[illegible]
156.00	9.949402E-03	1.812171E-02	[illegible]	5.092172E-03
158.00	1.001522E-02	1.906093E-02	[illegible]	[illegible]
160.00	1.024073E-02	1.930234E-02	[illegible]	[illegible]
162.00	[illegible]	1.963617E-02	[illegible]	[illegible]
164.00	1.045990E-02	1.954020E-02	[illegible]	2.794949E-03
166.00	1.005615E-02	1.914273E-02	[illegible]	[illegible]
168.00	1.104730E-02	1.860524E-02	[illegible]	[illegible]
170.00	1.194217E-02	[illegible]	[illegible]	[illegible]
172.00	1.326139E-02	1.800341E-02	-1.270902E-02	[illegible]
174.00	1.499089E-02	1.819174E-02	[illegible]	[illegible]
176.00	1.631193E-02	1.899930E-02	-1.711383E-02	[illegible]
178.00	1.800066E-02	[illegible]	[illegible]	[illegible]
180.00	1.935056E-02	1.935606E-02	[illegible]	[illegible]

TABLE A7. NORMALIZED PHASE MATRIX FOR HOMOGENEOUS PARTICLES AT 75% RELATIVE HUMIDITY, λ=0.40μ

MI=1.444251-0.0179631, MS=1.444251-0.0179631

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.350964E+01	1.350964E+01	1.350964E+01	[illegible].158820E-16
1.00	6.466020E+00	6.460346E+00	6.467436E+00	-2.6[illegible]420E-02
2.00	3.620162E+00	3.621065E+00	3.626559E+00	-2.909[illegible]E-02
3.00	2.597246E+00	2.598065E+00	2.597552E+00	-3.011100E-02
4.00	2.050026E+00	2.064238E+00	2.059754E+00	-3.028572E-02
5.00	1.720479E+00	1.722629E+00	1.720391E+00	-3.039230E-02
6.00	1.485302E+00	1.486737E+00	1.484900E+00	-3.042027E-02
7.00	1.310339E+00	1.311625E+00	1.309720E+00	-3.038922E-02
8.00	1.173705E+00	1.174890E+00	1.172670E+00	-3.028752E-02
9.00	1.063313E+00	1.064212E+00	1.062697E+00	-3.012549E-02
10.00	9.714522E-01	9.720902E-01	9.698204E-01	-2.990464E-02
11.00	8.933696E-01	8.937290E-01	8.914820E-01	-2.962857E-02
12.00	8.250332E-01	8.258043E-01	8.236443E-01	-2.934001E-02
13.00	7.665810E-01	7.662424E-01	7.640015E-01	-2.892031E-02
14.00	7.139006E-01	7.132330E-01	7.110563E-01	-2.851790E-02
15.00	6.668630E-01	6.650434E-01	6.635643E-01	-2.807692E-02
16.00	6.242557E-01	6.225530E-01	6.206151E-01	-2.761101E-02
17.00	5.856930E-01	5.832017E-01	5.815101E-01	-2.712533E-02
18.00	5.500407E-01	5.472837E-01	5.457019E-01	-2.662264E-02
19.00	5.174900E-01	5.141314E-01	5.127554E-01	-2.610344E-02
20.00	4.873720E-01	4.834000E-01	4.823104E-01	-2.559336E-02
22.00	4.336481E-01	4.285992E-01	4.270770E-01	-2.446050E-02
24.00	3.871830E-01	3.809404E-01	3.804174E-01	-2.330467E-02
26.00	3.464694E-01	3.391300E-01	3.392710E-01	-2.211430E-02
28.00	3.107991E-01	3.023519E-01	3.029127E-01	-2.090774E-02
30.00	2.793590E-01	2.698604E-01	2.708002E-01	-1.970411E-02
32.00	2.515692E-01	2.410223E-01	2.423570E-01	-1.851044E-02
34.00	2.269314E-01	2.154303E-01	2.171104E-01	-1.735117E-02
36.00	2.049575E-01	1.926720E-01	1.946010E-01	-1.621347E-02
38.00	1.856036E-01	1.726134E-01	1.746730E-01	-1.510653E-02
40.00	1.682770E-01	1.543083E-01	1.565540E-01	-1.403631E-02
42.00	1.528230E-01	1.382617E-01	1.409518E-01	-1.301079E-02
44.00	1.390219E-01	1.238946E-01	1.267432E-01	-1.203294E-02
46.00	1.266023E-01	1.110797E-01	1.140363E-01	-1.110404E-02
48.00	1.156364E-01	9.961857E-02	1.026421E-01	-1.022197E-02
50.00	1.057375E-01	8.941400E-02	9.247159E-02	-9.385201E-03
52.00	9.685064E-02	8.028200E-02	8.333305E-02	-8.593954E-03
54.00	8.887602E-02	7.212062E-02	7.512972E-02	-7.840100E-03
56.00	8.170065E-02	6.482953E-02	6.775004E-02	-7.147400E-03
58.00	7.523102E-02	5.830596E-02	6.112077E-02	-6.489092E-03
60.00	6.939534E-02	5.247917E-02	5.519830E-02	-5.872197E-03
62.00	6.412430E-02	4.727[illegible]91E-02	4.977097E-02	-5.292156E-03
64.00	5.935005E-02	4.261414E-02	4.492521E-02	-4.747507E-03
66.00	5.504040E-02	3.845273E-02	4.054203E-02	-4.237502E-03
68.00	5.111111E-02	3.473600E-02	3.658194E-02	-3.760114E-03
70.00	4.750220E-02	3.141036E-02	3.299891E-02	-3.312401E-03
72.00	4.438422E-02	2.846796E-02	2.975450E-02	-2.892034E-03
74.00	4.141517E-02	2.581765E-02	2.681303E-02	-2.500842E-03
76.00	3.873551E-02	2.346967E-02	2.414503E-02	-2.132715E-03
78.00	3.628977E-02	2.137303E-02	2.172242E-02	-1.788411E-03

SCATTERING ANGLE	I1	I2	I3	I4
80.00	3.405576E-02	1.951610E-02	1.951974E-02	-1.464507E-03
82.00	3.201543E-02	1.780847E-02	1.751623E-02	-1.159430E-03
84.00	3.013437E-02	1.640905E-02	1.563254E-02	-8.7[illegible]E-04
86.00	2.843173E-02	1.512226E-02	1.403132E-02	-6.029[illegible]E-04
88.00	2.686402E-02	1.398466E-02	1.251577E-02	-3.451414E-04
90.00	2.541776E-02	1.299694E-02	1.113271E-02	-1.394430E-04
92.00	2.409137E-02	1.213033E-02	9.903257E-03	1.171335E-04
94.00	2.287108E-02	1.137025E-02	8.7139[illegible]E-03	3.315690E-04
96.00	2.174807E-02	1.073049E-02	7.650492E-03	5.3[illegible]E-04
98.00	2.07[illegible]E-02	1.017767E-02	6.687403E-03	7.295703E-04
100.00	1.970473E-02	9.710795E-03	5.790077E-03	9.135739E-04
102.00	1.883065E-02	[illegible]E-03	4.903334E-03	1.093524E-03
104.00	1.808599E-02	9.00520[illegible]	4.234660E-03	1.263021E-03
106.00	1.734496E-02	8.754911E-03	[illegible]E-03	1.427398E-03
108.00	1.[illegible]06294E-02	8.505009E-03	2.908349E-03	1.5[illegible]
110.00	1.603600E-02	8.433462E-03	2.321041E-03	1.739109E-03
112.00	1.546063E-02	8.353691E-03	1.777904E-03	1.891043E-03
114.00	1.493333E-02	8.323190E-03	1.275142E-03	2.039[illegible]E-03
116.00	1.445121E-02	8.339203E-03	8.003049E-04	2.180322E-03
118.00	1.401170E-02	8.399777E-03	3.737337E-04	2.322530E-03
120.00	1.361281E-02	8.503403E-03	-3.255742E-05	2.464397E-03
122.00	1.325270E-02	8.648[illegible]E-03	-4.136[illegible]E-04	2.6[illegible]E-03
124.00	1.292963E-02	8.836900E-03	-7.722614E-04	2.748333E-03
126.00	1.264200E-02	9.060780E-03	-1.111003E-03	2.892100E-03
128.00	1.238961E-02	9.326505E-03	-1.432319E-03	3.037097E-03
130.00	1.216831E-02	9.633320E-03	-1.730970E-03	3.186130E-03
132.00	1.196060E-02	9.982030E-03	-2.033650E-03	3.337030E-03
134.00	1.182556E-02	1.037330E-02	-2.318979E-03	3.493609E-03
136.00	1.170305E-02	1.081605E-02	-2.597529E-03	3.654340E-03
138.00	1.161314E-02	1.129192E-02	-2.871065E-03	3.820149E-03
140.00	1.155594E-02	1.182110E-02	-3.140000E-03	3.990791E-03
142.00	1.153166E-02	1.239950E-02	-3.416867E-03	4.165417E-03
144.00	1.154055E-02	1.302827E-02	-3.693745E-03	4.342340E-03
146.00	1.158203E-02	1.373736E-02	-3.975520E-03	4.518781E-03
148.00	1.165797E-02	1.443441E-02	-4.275670E-03	4.689079E-03
150.00	1.176364E-02	1.520209E-02	-4.589970E-03	4.847105E-03
152.00	1.189493E-02	1.600017E-02	-4.927186E-03	4.976503E-03
154.00	1.204295E-02	1.680411E-02	-5.294400E-03	5.057500E-03
156.00	1.219316E-02	1.757936E-02	-5.701645E-03	5.050343E-03
158.00	1.232504E-02	1.827372E-02	-6.162461E-03	4.936760E-03
160.00	1.241419E-02	1.881505E-02	-6.695026E-03	4.641115E-03
162.00	1.243963E-02	1.911960E-02	-7.321585E-03	4.110401E-03
164.00	1.240014E-02	1.910552E-02	-8.067210E-03	3.333479E-03
166.00	1.234131E-02	1.875335E-02	-8.953[illegible]E-03	2.365037E-03
168.00	1.230841E-02	1.817137E-02	-9.[illegible]91492E-03	1.157407E-03
170.00	1.268360E-02	1.756979E-02	-1.121090E-02	1.093534E-04
172.00	1.337040E-02	1.712841E-02	-1.265344E-02	-6.245026E-04
174.00	1.447152E-02	1.694412E-02	-1.428695E-02	-9.170767E-04
176.00	1.581036E-02	1.784264E-02	-1.551437E-02	-7.527784E-04
178.00	1.704800E-02	1.736452E-02	-1.714700E-02	-2.805433E-04
180.00	1.753406E-02	1.759640E-02	-1.759460E-02	-1.047005E-17

TABLE A8. NORMALIZED PHASE MATRIX FOR HOMOGENEOUS PARTICLES AT 75% RELATIVE HUMIDITY, λ=0.55μ

MI=1.450761-0.0208211, MS=1.450761-0.0208211

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.[illegible]E+01	1.[illegible]E+01	1.[illegible]E+01	-7.[illegible]E-1[illegible]
1.00	6.52906[illegible]E+00	6.53[illegible]E+00	6.52[illegible]E+00	-2.[illegible]E-02
2.00	3.[illegible]E+00	3.[illegible]E+00	3.[illegible]E+00	-2.[illegible]E-02
3.00	2.[illegible]E+00	2.[illegible]E+00	2.[illegible]E+00	-3.[illegible]E-02
4.00	2.[illegible]E+00	2.[illegible]E+00	2.[illegible]E+00	-3.[illegible]E-02
5.00	1.[illegible]E+00	1.[illegible]E+00	1.[illegible]E+00	-3.[illegible]E-02
6.00	1.[illegible]E+00	1.[illegible]E+00	1.[illegible]E+00	-3.[illegible]E-02
7.00	1.33[illegible]E+00	1.33[illegible]E+00	1.33[illegible]E+00	-3.[illegible]E-02
8.00	1.19[illegible]E+00	1.19[illegible]E+00	1.19[illegible]E+00	-3.[illegible]E-02
9.00	1.08[illegible]E+00	1.08[illegible]E+00	1.08[illegible]E+00	-3.[illegible]E-02
10.00	9.85[illegible]E-01	9.86[illegible]E-01	9.84[illegible]E-01	-2.[illegible]E-02
11.00	9.05[illegible]E-01	9.05[illegible]E-01	9.03[illegible]E-01	-2.[illegible]E-02
12.00	8.[illegible]E-01	8.35[illegible]E-01	8.33[illegible]E-01	-2.[illegible]E-02
13.00	7.75[illegible]E-01	7.7[illegible]E-01	7.72[illegible]E-01	-2.[illegible]E-02
14.00	7.21[illegible]E-01	7.20[illegible]E-01	7.18[illegible]E-01	-2.[illegible]E-02
15.00	6.73[illegible]E-01	6.71[illegible]E-01	6.69[illegible]E-01	-2.[illegible]E-02
16.00	6.29[illegible]E-01	6.26[illegible]E-01	6.25[illegible]E-01	-2.[illegible]E-02
17.00	5.89[illegible]E-01	5.86[illegible]E-01	5.85[illegible]E-01	-2.[illegible]E-02
18.00	5.52[illegible]E-01	5.49[illegible]E-01	5.48[illegible]E-01	-2.[illegible]E-02
19.00	5.19[illegible]E-01	5.15[illegible]E-01	5.14[illegible]E-01	-2.[illegible]E-02
20.00	4.89[illegible]E-01	4.84[illegible]E-01	4.83[illegible]E-01	-2.[illegible]E-02
22.00	4.34[illegible]E-01	4.28[illegible]E-01	4.27[illegible]E-01	-2.[illegible]E-02
24.00	3.87[illegible]E-01	3.79[illegible]E-01	3.78[illegible]E-01	-2.[illegible]E-02
26.00	3.45[illegible]E-01	3.37[illegible]E-01	3.36[illegible]E-01	-2.[illegible]E-02
28.00	3.09[illegible]E-01	3.00[illegible]E-01	2.99[illegible]E-01	-2.[illegible]E-02
30.00	2.76[illegible]E-01	2.68[illegible]E-01	2.66[illegible]E-01	-1.[illegible]E-02
32.00	2.50[illegible]E-01	2.38[illegible]E-01	2.37[illegible]E-01	-1.[illegible]E-02
34.00	2.25[illegible]E-01	2.12[illegible]E-01	2.11[illegible]E-01	-1.[illegible]E-02
36.00	2.03[illegible]E-01	1.89[illegible]E-01	1.92[illegible]E-01	-1.[illegible]E-02
38.00	1.84[illegible]E- 1	1.69[illegible]E-01	1.72[illegible]E-01	-1.[illegible]E-02
40.00	1.68[illegible]E-01	1.52[illegible]E-01	1.54[illegible]E-01	-1.[illegible]E-02
42.00	1.51[illegible]E-01	1.39[illegible]E-01	1.38[illegible]E-01	-1.[illegible]E-02
44.00	1.38[illegible]E-01	1.2[illegible]E-01	1.[illegible]E-01	-1.[illegible]E-02
46.00	1.25[illegible]E-01	1.08[illegible]E-01	1.[illegible]E-01	-1.[illegible]E-02
48.00	1.14[illegible]E-01	9.[illegible]E-02	1.[illegible]E-01	-9.[illegible]E-03
50.00	1.05[illegible]E-01	8.[illegible]E-02	9.[illegible]E-02	-9.[illegible]E-03
52.00	9.[illegible]E-02	7.[illegible]E-02	8.[illegible]E-02	-8.[illegible]E-03
54.00	8.46[illegible]E-02	6.[illegible]E-02	7.[illegible]E-02	-7.[illegible]E-03
56.00	7.85[illegible]E-02	6.[illegible]E-02	6.[illegible]E-02	-6.[illegible]E-03
58.00	7.32[illegible]E-02	5.[illegible]E-02	6.[illegible]E-02	-5.[illegible]E-03
60.00	6.85[illegible]E-02	5.[illegible]E-02	5.[illegible]E-02	-5.[illegible]E-03
62.00	6.43[illegible]E-02	4.[illegible]E-02	5.[illegible]E-02	-5.[illegible]E-03
64.00	6.06[illegible]E-02	4.[illegible]E-02	4.[illegible]E-02	-4.[illegible]E-03
66.00	5.74[illegible]E-02	3.69[illegible]E-02	4.[illegible]E-02	-4.[illegible]E-03
68.00	5.46[illegible]E-02	3.29[illegible]E-02	3.[illegible]E-02	-3.[illegible]E-03
70.00	5.21[illegible]E-02	2.90[illegible]E-02	3.[illegible]E-02	-3.[illegible]E-03
72.00	4.98[illegible]E-02	2.60[illegible]E-02	2.[illegible]E-02	-2.[illegible]E-03
74.00	4.[illegible]E-02	2.[illegible]E-02	2.[illegible]E-02	-2.[illegible]E-03
76.00	3.99[illegible]E-02	2.19[illegible]E-02	2.[illegible]E-02	-2.[illegible]E-03
78.00	3.[illegible]E-02	2.[illegible]E-02	2.[illegible]E-02	-1.[illegible]E-03

SCATTERING ANGLE	I1	I2	I3	I4
80.00	3.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	-1.[illegible]E-03
82.00	3.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	-1.[illegible]E-03
84.00	3.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	-1.[illegible]E-03
86.00	2.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	-1.[illegible]E-03
88.00	2.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	-1.[illegible]E-03
90.00	2.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	-1.[illegible]E-03
92.00	2.[illegible]E-02	1.[illegible]E-02	9.[illegible]E-03	-1.[illegible]E-03
94.00	2.[illegible]E-02	1.[illegible]E-02	9.[illegible]E-03	-1.[illegible]E-03
96.00	2.[illegible]E-02	1.[illegible]E-02	9.[illegible]E-03	-1.[illegible]E-03
98.00	2.[illegible]E-02	1.[illegible]E-02	9.[illegible]E-03	-1.[illegible]E-03
100.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
102.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
104.00	1.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
106.00	1.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
108.00	1.[illegible]E-02	1.[illegible]E-02	7.[illegible]E-03	-1.[illegible]E-03
110.00	1.[illegible]E-02	1.[illegible]E-02	7.[illegible]E-03	-1.[illegible]E-03
112.00	1.[illegible]E-02	1.[illegible]E-02	7.[illegible]E-03	-1.[illegible]E-03
114.00	1.[illegible]E-02	1.[illegible]E-02	7.[illegible]E-03	-1.[illegible]E-03
116.00	1.[illegible]E-02	1.[illegible]E-02	7.[illegible]E-03	-2.[illegible]E-03
118.00	1.[illegible]E-02	1.[illegible]E-02	7.[illegible]E-03	-1.[illegible]E-03
120.00	1.[illegible]E-02	1.[illegible]E-02	6.[illegible]E-03	-1.[illegible]E-03
122.00	1.[illegible]E-02	1.[illegible]E-02	6.[illegible]E-03	-1.[illegible]E-03
124.00	1.[illegible]E-02	1.[illegible]E-02	6.[illegible]E-03	-1.[illegible]E-03
126.00	1.[illegible]E-02	1.[illegible]E-02	6.[illegible]E-03	-2.[illegible]E-03
128.00	1.[illegible]E-02	1.[illegible]E-02	9.[illegible]E-03	-2.[illegible]E-03
130.00	1.[illegible]E-02	1.[illegible]E-02	9.[illegible]E-03	-2.[illegible]E-03
132.00	1.[illegible]E-02	1.[illegible]E-02	9.[illegible]E-03	-3.[illegible]E-03
134.00	1.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	-3.[illegible]E-03
136.00	1.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	-3.[illegible]E-03
138.00	1.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	-4.[illegible]E-03
140.00	1.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	-4.[illegible]E-03
142.00	1.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	-4.[illegible]E-03
144.00	1.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	-5.[illegible]E-03
146.00	1.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	-5.[illegible]E-03
148.00	1.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	-5.[illegible]E-03
150.00	1.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	-6.[illegible]E-03
152.00	1.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	-6.[illegible]E-03
154.00	1.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	-6.[illegible]E-03
156.00	1.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	-6.[illegible]E-03
158.00	1.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	-7.[illegible]E-03
160.00	1.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	-7.[illegible]E-03
162.00	1.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	-6.[illegible]E-03
164.00	1.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	-8.[illegible]E-03
166.00	1.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	-9.[illegible]E-03
168.00	1.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	-9.[illegible]E-03
170.00	1.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	-1.[illegible]E-02
172.00	1.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	-1.[illegible]E-02
174.00	1.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	-1.[illegible]E-02
176.00	1.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	-1.[illegible]E-02
178.00	1.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	-1.[illegible]E-02
180.00	1.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	-1.[illegible]E-02

TABLE A9. NORMALIZED PHASE MATRIX FOR HOMOGENEOUS PARTICLES AT 75% RELATIVE HUMIDITY, λ=0.70μ

MI=1.444311-0.0236791, MS=1.444311-0.0236791

SCATTERING ANGLE	I1	I2	I3	I4	SCATTERING ANGLE	I1	I2	I3	I4
0.00	5.035532E+00	5.035052E+00	5.035052E+00	-6.760575E-15	80.00	3.526508E-02	1.738387E-02	1.345179E-02	-1.513890E-03
1.00	4.317349E+00	4.313350E+00	4.315447E+00	-2.220331E-02	82.00	3.329179E-02	1.582710E-02	1.246323E-02	-1.274673E-03
2.00	3.765495E+00	3.767735E+00	3.766342E+00	-3.050055E-02	84.00	3.140373E-02	1.445674E-02	1.404690E-02	-9.5 2793E-04
3.00	2.746073E+00	2.748002E+00	2.745122E+00	-3.088518E-02	86.00	2.982587E-02	1.325477E-02	1.298607E-02	-7.013177E-04
4.00	2.140165E+00	2.141693E+00	2.140179E+00	-3.097432E-02	88.00	2.830410E-02	1.226508E-02	1.146547E-02	-4.604530E-04
5.00	1.785048E+00	1.787044E+00	1.785521E+00	-3.101739E-02	90.00	2.690591E-02	1.129311E-02	1.007167E-02	-2.334720E-04
6.00	1.531113E+00	1.534341E+00	1.538737E+00	-3.101004E-02	92.00	2.562013E-02	1.050599E-02	8.742621E-03	-1.923[illegible]E-05
7.00	1.355842E+00	1.356048E+00	1.354331E+00	-3.091119E-02	94.00	2.443603E-02	9.632153E-03	7.017480E-03	1.833208E-04
8.00	1.212259E+00	1.212627E+00	1.210313E+00	-3.078199E-02	96.00	2.334710E-02	9.261246E-03	6.536453E-03	3.751928E-04
9.00	1.095140E+00	1.099520E+00	1.093743E+00	-3.050738E-02	98.00	2.234297E-02	8.703971E-03	5.540779E-03	5.573593E-04
10.00	9.964329E-01	9.984922E-01	9.967342E-01	-3.032710E-02	100.00	2.141732E-02	8.391980E-03	4.022534E-03	7.307479E-04
11.00	9.152332E-01	9.159420E-01	9.147206E-01	-3.002508E-02	102.00	2.050378E-02	8.077813E-03	3.774598E-03	8.962223E-04
12.00	8.451297E-01	8.445257E-01	8.429350E-01	-2.967094E-02	104.00	1.977673E-02	7.834834E-03	2.990517E-03	1.094589E-03
13.00	7.851140E-01	7.818263E-01	7.803370E-01	-2.968100E-02	106.00	1.905109E-02	7.657130E-03	2.204418E-03	1.200622E-03
14.00	7.279472E-01	7.261230E-01	7.247715E-01	-2.885209E-02	108.00	1.838236E-02	7.539424E-03	1.591958E-03	1.353071E-03
15.00	6.795723E-01	6.761845E-01	6.749982E-01	-2.839150E-02	110.00	1.770644E-02	7.477 47E-03	9.692966E-04	1.494002E-03
16.00	6.342230E-01	6.310421E-01	6.304632E-01	-2.789902E-02	112.00	1.713972E-02	7.465867E-03	3.830373E-04	1.632103E-03
17.00	5.935585E-01	5.899565E-01	5.891737E-01	-2.738312E-02	114.00	1.667894E-02	7.502276E-03	-1.598340E-04	1.760072E-03
18.00	5.580052E-01	5.543711E-01	5.510132E-01	-2.696497E-02	116.00	1.620123E-02	7.583104E-03	-6.072020E-04	1.997239E-03
19.00	5.227040E-01	5.178199E-01	5.175020E-01	-2.602910E-02	118.00	1.578423E-02	7.705604E-03	-[illegible]41947E-03	2.126252E-03
20.00	4.914735E-01	4.859322E-01	4.855040E-01	-2.571947E-02	120.00	1.530501E-02	7.867680E-03	-1.587770E-03	2.153758E-03
22.00	4.355991E-01	4.290472E-01	4.294453E-01	-2.453381E-02	122.00	1.500353E-02	8.087279E-03	-2.087426E-03	2.260394E-03
24.00	3.879495E-01	3.797249E-01	3.806779E-01	-2.332 79E-02	124.00	1.467074E-02	8.302955E-03	-2.463013E-03	2.408704E-03
26.00	3.462832E-01	3.367496E-01	3.362100E-01	-2.200149E-02	126.00	1.438202E-02	8.573529E-03	-2.778408E-03	2.53356[illegible]E-03
28.00	3.076933E-01	2.990787E-01	3.011082E-01	-2.003430E-02	128.00	1.412124E-02	8.870447E-03	-3.139069E-03	2.661304E-03
30.00	2.779643E-01	2.659493E-01	2.683423E-01	-1.959465E-02	130.00	1.389131E-02	9.210279E-03	-3.476267E-03	2.790505E-03
32.00	2.440545E-01	2.366773E-01	2.395240E-01	-1.837215E-02	132.00	1.369214E-02	9.587697E-03	-3.802917E-03	2.921927E-03
34.00	2.246712E-01	2.108100E-01	2.144503E-01	-1.717724E-02	134.00	1.352322E-02	9.992426E-03	-4.117787E-03	3.055402E-03
36.00	2.031430E-01	1.875955E-01	1.914931E-01	-1.611794E-02	136.00	1.338419E-02	1.043 60E-02	-4.422997E-03	3.191778E-03
38.00	1.857237E-01	1.673544E-01	1.714841E-01	-1.409914E-02	138.00	1.327430E-02	1.090266E-02	-4.720630E-03	3.330716E-03
40.00	1.660357E-01	1.495427E-01	1.537694E-01	-1.302998E-02	140.00	1.319452E-02	1.140867E-02	-5.012560E-03	3.471944E-03
42.00	1.511353E-01	1.335150E-01	1.379424E-01	-1.200100E-02	142.00	1.314395E-02	1.194605E-02	-5.301650E-03	3.614952E-03
44.00	1.375598E-01	1.192048E-01	1.230120E-01	-1.182337E-02	144.00	1.312107E-02	1.252240E-02	-5.589395E-03	3.759026E-03
46.00	1.254003E-01	1.065545E-01	1.112512E-01	-1.090125E-02	146.00	1.312701E-02	1.312746E-02	-5.878406E-03	3.655448E-03
48.00	1.145604E-01	9.529513E-02	1.000333E-01	-1.002032E-02	148.00	1.315807E-02	1.376173E-02	-6.171291E-03	4.026970E-03
50.00	1.045394E-01	8.562384E-02	9.004[illegible]E-02	-9.001054E-03	150.00	1.321196E-02	1.441929E-02	-6.471110E-03	4.143053E-03
52.00	9.615205E-02	7.667745E-02	8.112543E-02	-8.425219E-03	152.00	1.328205E-02	1.509192E-02	-6.781727E-03	4.233420E-03
54.00	8.835971E-02	6.825170E-02	7.257405E-02	-7.635331E-03	154.00	1.330144E-02	1.579973E-02	-7.100375E-03	4.282509E-03
56.00	8.140652E-02	6.110434E-02	6.575356E-02	-7.010205E-03	156.00	1.343619E-02	1.640226E-02	-7.458450E-03	4.268226E-03
58.00	7.511536E-02	5.480751E-02	5.861083E-02	-6.308 95E-03	158.00	1.349092E-02	1.698066E-02	-7.842480E-03	4.100720E-03
60.00	6.945605E-02	4.913786E-02	5.344522E-02	-5.706340E-03	160.00	1.355570E-02	1.744247E-02	-8.275848E-03	3.922779E-03
62.00	6.435449E-02	4.407983E-02	4.815759E-02	-5.263136E-03	162.00	1.340321E-02	1.772132E-02	-8.775347E-03	3.514597E-03
64.00	5.972360E-02	3.956790E-02	4.340472E-02	-4.476303E-03	164.00	1.337937E-02	1.775019E-02	-9.306059E-03	2.906470E-03
66.00	5.555321E-02	3.554427E-02	3.912499E-02	-4.105678E-03	166.00	1.321004E-02	1.749539E-02	-1.000584E-02	2.203404E-03
68.00	5.176574E-02	3.195737E-02	3.524032E-02	-3.722955E-03	168.00	1.311375E-02	1.701697E-02	-1.083428E-02	1.188858E-03
70.00	4.833466E-02	2.876100E-02	3.172340E-02	-3.292163E-03	170.00	1.317428E-02	1.645403E-02	-1.184526E-02	3.[illegible]6 55E-04
72.00	4.521350E-02	2.591078E-02	2.859460E-02	-2.939215E-03	172.00	1.351979E-02	1.600712E-02	-1.242035E-02	-3.439440E-04
74.00	4.237349E-02	2.338071E-02	2.56523[illegible]	-2.512340E-03	174.00	1.418406E-02	1.579088E-02	-1.407137E-02	-6.191339E-04
76.00	3.979541E-02	2.1[illegible]E-02	2.302575E-02	-2.129043E-03	176.00	1.500795E-02	1.594525E-02	-1.517249E-02	-5.120008E-04
78.00	3.742374E-02	1.914720E-02	2.067[illegible]	-1.824575E-03	178.00	1.594295E-02	1.609054E-02	-1.590533E-02	-3.871745E-04
					180.00	1.624560E-02	1.624600E-02	-1.624603E-02	-1.910635E-17

TABLE A10. NORMALIZED PHASE MATRIX FOR HOMOGENEOUS PARTICLES AT 75% RELATIVE HUMIDITY, λ=1.00μ

M'=1.440763-0.029394I, MS=1.440763-0.029394I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	6.549357E+00	6.540057E+00	6.548057E+00	-5.080011E-15
1.00	5.565610E+00	5.566536E+00	5.560076E+00	-1.436133E-02
2.00	3.837306E+00	3.839202E+00	3.838010E+00	-3.021236E-02
3.00	2.751335E+00	2.752474E+00	2.751677E+00	-3.149273E-02
4.00	2.189642E+00	2.191010E+00	2.189645E+00	-3.170921E-02
5.00	1.823490E+00	1.824037E+00	1.823249E+00	-3.192308E-02
6.00	1.570733E+00	1.571597E+00	1.570191E+00	-3.185933E-02
7.00	1.380700E+00	1.381770E+00	1.379044E+00	-3.182450E-02
8.00	1.232921E+00	1.233120E+00	1.231719E+00	-3.163013E-02
9.00	1.112994E+00	1.112012E+00	1.111435E+00	-3.145947E-02
10.00	1.013513E+00	1.012091E+00	1.011570E+00	-3.110773E-02
11.00	9.289625E-01	9.276640E-01	9.206375E-01	-3.066315E-02
12.00	8.580294E-01	8.543849E-01	8.532737E-01	-3.048943E-02
13.00	7.920370E-01	7.899241E-01	7.889549E-01	-3.009416E-02
14.00	7.359095E-01	7.327433E-01	7.319420E-01	-2.964297E-02
15.00	6.849264E-01	6.815340E-01	6.809244E-01	-2.917208E-02
16.00	6.393310E-01	6.356498E-01	6.349[illegible]E-01	-2.806314E-02
17.00	5.973914E-01	5.932099E-01	5.931219E-01	-2.813332E-02
18.00	5.602023E-01	5.549950E-01	5.549704E-01	-2.757080E-02
19.00	5.257428E-01	5.196574E-01	5.199077E-01	-2.708596E-02
20.00	4.933452E-01	4.574737E-01	4.877601E-01	-2.641419E-02
22.00	4.375143E-01	4.293007E-01	4.304304E-01	-2.519020E-02
24.00	3.889551E-01	3.793292E-01	3.869906E-01	-2.394110E-02
26.00	3.469030E-01	3.358592E-01	3.386501E-01	-2.206593E-02
28.00	3.101716E-01	2.970376E-01	3.005427E-01	-2.138613E-02
30.00	2.790492E-01	2.644519E-01	2.670351E-01	-2.011460E-02
32.00	2.498231E-01	2.350491E-01	2.380742E-01	-1.880397E-02
34.00	2.249717E-01	2.290954E-01	2.131203E-01	-1.704290E-02
36.00	2.030249E-01	1.801430E-01	1.905202E-01	-1.645949E-02
38.00	1.830304E-01	1.650234E-01	1.775149E-01	-1.531919E-02
40.00	1.663991E-01	1.470679E-01	1.527514E-01	-1.422007E-02
42.00	1.511195E-01	1.310231E-01	1.369693E-01	-1.315275E-02
44.00	1.375300E-01	1.170021E-01	1.229242E-01	-1.219309E-02
46.00	1.254257E-01	1.049904E-01	1.[illegible]E-01	-1.125[illegible]E-02
48.00	1.140254E-01	9.377107E-02	9.923073E-02	-1.030175E-02
50.00	1.049730E-01	8.374029E-02	8.925444E-02	-9.563710E-03
52.00	9.035517E-02	7.400361E-02	8.032102E-02	-8.734952E-03
54.00	8.059079E-02	6.045024E-02	7.231713E-02	-7.943750E-03
56.00	8.103740E-02	5.909560E-02	6.513460E-02	-7.290109E-03
58.00	7.530330E-02	5.360040E-02	5.860800E-02	-6.646150E-03
60.00	6.375023E-02	4.739924E-02	5.297391E-02	-6.135402E-03
62.00	6.060020E-02	4.290496E-02	4.704190E-02	-5.463920E-03
64.00	6.[illegible]7644E-02	3.052499E-02	4.[illegible]E-02	-4.932340E-03
66.00	5.592134E-02	3.455037E-02	3.805722E-02	-4.429172E-03
68.00	5.215480E-02	3.108993E-02	3.479941E-02	-3.981564E-03
70.00	4.073630E-02	2.705793E-02	3.130401E-02	-3.524311E-03
72.00	4.502895E-02	2.[illegible]5441E-02	2.[illegible]E-02	-3.115437E-03
74.00	4.273999E-02	2.250351E-02	2.525611E-02	-2.732932E-03
76.00	4.022121E-02	2.035345E-02	2.203790E-02	-2.375050E-03
78.00	3.700723E-02	1.839590E-02	2.025397E-02	-2.040039E-03

SCATTERING ANGLE	I1	I2	I3	I4
80.00	3.571562E-02	1.666586E-02	1.808 37[illegible]E-02	-1.726151E-03
82.00	3.374656E-02	1.514070E-02	1.689600E-02	-1.431920E-03
84.00	3.194222E-02	1.388843E-02	1.428230E-02	-1.195850E-03
86.00	3.028789E-02	1.262716E-02	1.262246E-02	-8.906020E-04
88.00	2.976710E-02	1.160486E-02	1.110145E-02	-6.320011E-04
90.00	2.737600E-02	1.37192 E-02	9.705967E-03	-4.234107E-04
92.00	2.680452E-02	9.957336E-03	8.424654E-03	-2.071229E-04
94.00	2.400082E-02	9.307760E-03	7.244909E-03	-2.911156E-05
96.00	2.311604E-02	8.760126E-03	6.159074E-03	1.902157E-04
98.00	2.200429E-02	8.305267E-03	5.157765E-03	3.731973E-04
100.00	2.107651E-02	7.934784E-03	4.233058E-03	5.469258E-04
102.00	2.102034E-02	7.641270E-03	3.378067E-03	7.122496E-04
104.00	2.023313E-02	7.410871E-03	2.506390E-03	8.699494E-04
106.00	1.950070E-02	7.259282E-03	1.692105E-03	1.020785E-03
108.00	1.884770E-02	7.159332E-03	1.170284E-03	1.165408E-03
110.00	1.820630E-02	7.113705E-03	5.359041E-04	1.304684E-03
112.00	1.763402E-02	7.110896E-03	-5.521526E-05	1.439787E-03
114.00	1.710802E-02	7.160767E-03	-6.072011E-04	1.569300E-03
116.00	1.662365E-02	7.262422E-03	-1.123604E-03	1.695919E-03
118.00	1.617924E-02	7.396179E-03	-1.606784E-03	1.819525E-03
120.00	1.577242E-02	7.567548E-03	-2.062533E-03	1.940677E-03
122.00	1.540122E-02	7.774390E-03	-2.491525E-03	2.059304E-03
124.00	1.500308E-02	8.014919E-03	-2.909551E-03	2.1777[illegible]E-03
126.00	1.475009E-02	8.267629E-03	-3.286407E-03	2.294569E-03
128.00	1.440494E-02	8.591327E-03	-3.649431E-03	2.410033E-03
130.00	1.424092E-02	8.925076E-03	-3.993042E-03	2.527277E-03
132.00	1.402507E-02	9.288105E-03	-4.327760E-03	2.643300E-03
134.00	1.3839[illegible]E-02	9.680675E-03	-4.649231E-03	2.759978E-03
136.00	1.367960E-02	1.012901E-02	-4.960247E-03	2.876054E-03
138.00	1.354703E-02	1.054883E-02	-5.262763E-03	2.993752E-03
140.00	1.344004E-02	1.102492E-02	-5.559750E-03	3.110960E-03
142.00	1.335966E-02	1.152804E-02	-5.85[illegible]193E-03	3.224693E-03
144.00	1.330306E-02	1.205709E-02	-6.139141E-03	3.335087E-03
146.00	1.326934E-02	1.261008E-02	-6.427803E-03	3.440298E-03
148.00	1.325626E-02	1.318394E-02	-6.710047E-03	3.534149E-03
150.00	1.326045E-02	1.377217E-02	-7.[illegible]1459[illegible]E-03	3.6[illegible]E-03
152.00	1.327609E-02	1.436702E-02	-7.319363E-03	3.681747E-03
154.00	1.329039E-02	1.495614E-02	-7.637923E-03	3.673530E-03
156.00	1.331509E-02	1.551194E-02	-7.977176E-03	3.620504E-03
158.00	1.331447E-02	1.600841E-02	-8.346078E-03	3.5[illegible]E-03
160.00	1.328276E-02	1.639909E-02	-8.759170E-03	3.248793E-03
162.00	1.320319E-02	1.662910E-02	-9.230400E-03	2.855893E-03
164.00	1.309422E-02	1.664975E-02	-9.777988E-03	2.364030E-03
166.00	1.296297E-02	1.642562E-02	-1.041600E-02	1.685040E-03
168.00	1.287839E-02	1.[illegible]1630E-02	-1.114943E-02	9.249875E-04
170.00	1.293777E-02	1.554632E-02	-1.197203E-02	2.137430E-04
172.00	1.323201E-02	1.518036E-02	-1.286031E-02	-2.320235E-04
174.00	1.378674E-02	1.502154E-02	-1.379043E-02	-4.902745E-04
176.00	1.45[illegible]367E-02	1.509401E-02	-1.4026[illegible]E-02	-3.862034E-04
178.00	1.515140E-02	1.536277E-02	-1.521272E-02	-1.349078E-04
180.00	1.542121E-02	1.542121E-02	-1.542121E-02	-1.189652E-17

APPENDIX B.

Normalized Phase Matrices for Type B Aerosols

TABLE B1. NORMALIZED PHASE MATRIX FOR TYPE B AEROSOLS, M=1.50-0.01I, R_1=0.06μM, ν=4.0, λ=0.30μ

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.260090E+01	1.260090E+01	1.260090E+01	-1.144630E-14
.10	1.246010E+01	1.246025E+01	1.245822E+01	-5.836120E-04
.20	1.209376E+01	1.208763E+01	1.203349E+01	-3.770350E-03
.30	1.149410E+01	1.148474E+01	1.140446E+01	-7.906175E-03
.40	1.072665E+01	1.072755E+01	1.077709E+01	-1.275105E-02
.50	9.876176E+00	9.877613E+00	9.876769E+00	-1.762010E-02
.60	8.997946E+00	8.999465E+00	8.990660E+00	-2.192450E-02
.70	8.149773E+00	8.150095E+00	8.149164E+00	-2.527564E-02
.80	7.369139E+00	7.370979E+00	7.369959E+00	-2.753862E-02
.90	6.686684E+00	6.696476E+00	6.685413E+00	-2.877453E-02
1.00	6.102576E+00	6.104426E+00	6.103346E+00	-2.925162E-02
1.10	5.617684E+00	5.619475E+00	5.618401E+00	-2.927224E-02
1.20	5.216179E+00	5.217905E+00	5.216443E+00	-2.912307E-02
1.30	4.880890E+00	4.892555E+00	4.881504E+00	-2.908949E-02
1.40	4.595267E+00	4.596806E+00	4.595940E+00	-2.902453E-02
1.50	4.345925E+00	4.347522E+00	4.346473E+00	-2.916999E-02
1.60	4.123614E+00	4.125193E+00	4.124139E+00	-2.938917E-02
1.70	3.922811E+00	3.924375E+00	3.923306E+00	-2.961062E-02
1.80	3.740831E+00	3.742100E+00	3.741098E+00	-2.978190E-02
1.90	3.575529E+00	3.577059E+00	3.579966E+00	-2.985946E-02
2.00	3.426761E+00	3.427771E+00	3.426668E+00	-2.993776E-02
3.00	2.455429E+00	2.466939E+00	2.459587E+00	-3.080010E-02
4.00	1.960273E+00	1.961460E+00	1.960091E+00	-3.172053E-02
5.00	1.643791E+00	1.644557E+00	1.643130E+00	-3.248932E-02
6.00	1.423916E+00	1.424364E+00	1.422086E+00	-3.301532E-02
7.00	1.260372E+00	1.260545E+00	1.258024E+00	-3.325170E-02
8.00	1.132671E+00	1.132645E+00	1.130693E+00	-3.312902E-02
9.00	1.029184E+00	1.029176E+00	1.026861E+00	-3.265932E-02
10.00	9.429058E-01	9.429903E-01	9.403222E-01	-3.195114E-02
11.00	8.694190E-01	8.696086E-01	8.666106E-01	-3.110996E-02
12.00	8.057145E-01	8.059921E-01	8.027201E-01	-3.024392E-02
13.00	7.495776E-01	7.500389E-01	7.465590E-01	-2.940100E-02
14.00	6.999212E-01	7.002100E-01	6.965853E-01	-2.888469E-02
15.00	6.550705E-01	6.554087E-01	6.516920E-01	-2.845809E-02
16.00	6.144530E-01	6.148090E-01	6.110261E-01	-2.814954E-02
17.00	5.774001E-01	5.777656E-01	5.739396E-01	-2.791050E-02
18.00	5.435444E-01	5.437705E-01	5.399377E-01	-2.763760E-02
19.00	5.125360E-01	5.124389E-01	5.096092E-01	-2.725100E-02
20.00	4.839193E-01	4.833533E-01	4.796060E-01	-2.675026E-02
22.00	4.326306E-01	4.300959E-01	4.275016E-01	-2.564960E-02
24.00	3.876260E-01	3.849592E-01	3.810045E-01	-2.405926E-02
26.00	3.475190E-01	3.444805E-01	3.417029E-01	-2.274967E-02
28.00	3.121247E-01	3.089767E-01	3.062171E-01	-2.140364E-02
30.00	2.809370E-01	2.773297E-01	2.767207E-01	-2.028139E-02
32.00	2.534214E-01	2.489920E-01	2.466123E-01	-1.922199E-02
34.00	2.293373E-01	2.235176E-01	2.215719E-01	-1.816243E-02
36.00	2.077610E-01	2.000666E-01	1.991021E-01	-1.695027E-02
38.00	1.875718E-01	1.835079E-01	1.791145E-01	-1.569014E-02
40.00	1.703217E-01	1.623393E-01	1.611921E-01	-1.453559E-02
42.00	1.561793E-01	1.461987E-01	1.452205E-01	-1.357350E-02
44.00	1.399462E-01	1.316895E-01	1.308412E-01	-1.267504E-02
46.00	1.271720E-01	1.196929E-01	1.178724E-01	-1.191924E-02
48.00	1.157529E-01	1.070304E-01	1.061854E-01	-1.113092E-02
50.00	1.054402E-01	9.652275E-02	9.561370E-02	-1.030592E-02
52.00	9.595577E-02	8.715178E-02	8.611934E-02	-9.412795E-03
54.00	8.751565E-02	7.874177E-02	7.751052E-02	-9.487881E-03
56.00	7.994997E-02	7.118120E-02	6.999696E-02	-7.626909E-03
58.00	7.311010E-02	6.444796E-02	6.321954E-02	-6.852684E-03
60.00	6.699104E-02	5.836712E-02	5.718018E-02	-6.191570E-03

SCATTERING ANGLE	I1	I2	I3	I4
62.00	6.155225E-02	5.293208E-02	5.159485E-02	-5.598594E-03
64.00	5.671154E-02	4.803650E-02	4.663310E-02	-5.053904E-03
66.00	5.232269E-02	4.367449E-02	4.215359E-02	-4.549480E-03
68.00	4.829701E-02	3.977321E-02	3.811003E-02	-4.051011E-03
70.00	4.456657E-02	3.638975E-02	3.440931E-02	-3.582503E-03
72.00	4.110549E-02	3.322596E-02	3.122960E-02	-3.143964E-03
74.00	3.789062E-02	3.040072E-02	2.827032E-02	-2.738203E-03
76.00	3.496066E-02	2.801921E-02	2.557000E-02	-2.338053E-03
78.00	3.233794E-02	2.579576E-02	2.313962E-02	-1.936522E-03
80.00	3.001113E-02	2.377194E-02	2.092333E-02	-1.560594E-03
82.00	2.796023E-02	2.194343E-02	1.892401E-02	-1.196605E-03
84.00	2.614592E-02	2.030518E-02	1.713572E-02	-8.687722E-04
86.00	2.449753E-02	1.886649E-02	1.559634E-02	-5.681792E-04
88.00	2.296282E-02	1.760815E-02	1.415062E-02	-2.925924E-04
90.00	2.149462E-02	1.650573E-02	1.290011E-02	-5.561092E-05
92.00	2.007927E-02	1.553687E-02	1.174113E-02	1.698476E-04
94.00	1.873620E-02	1.467075E-02	1.060997E-02	3.944479E-04
96.00	1.750249E-02	1.388504E-02	9.679417E-03	6.217224E-04
98.00	1.641200E-02	1.316600E-02	8.767292E-03	8.640312E-04
100.00	1.549150E-02	1.252419E-02	7.962999E-03	1.122040E-03
102.00	1.469523E-02	1.196976E-02	7.203533E-03	1.361416E-03
104.00	1.402464E-02	1.149290E-02	6.551177E-03	1.564175E-03
106.00	1.341504E-02	1.110977E-02	5.970376E-03	1.747070E-03
108.00	1.282762E-02	1.082769E-02	5.421730E-03	1.898499E-03
110.00	1.225727E-02	1.060926E-02	4.900482E-03	2.047032E-03
112.00	1.168452E-02	1.045139E-02	4.419555E-03	2.210316E-03
114.00	1.114476E-02	1.030624E-02	3.967040E-03	2.401499E-03
116.00	1.065472E-02	1.017490E-02	3.563684E-03	2.600334E-03
118.00	1.022130E-02	1.008095E-02	3.219374E-03	2.795091E-03
120.00	9.837695E-03	9.994400E-03	2.929560E-03	2.972591E-03
122.00	9.490819E-03	1.000635E-02	2.674430E-03	3.111430E-03
124.00	9.207051E-03	1.011617E-02	2.421954E-03	3.268962E-03
126.00	8.966007E-03	1.030443E-02	2.157260E-03	3.382944E-03
128.00	8.771490E-03	1.054542E-02	1.873817E-03	3.573232E-03
130.00	8.631601E-03	1.080163E-02	1.598139E-03	3.758267E-03
132.00	8.537402E-03	1.110367E-02	1.303674E-03	3.967866E-03
134.00	8.490691E-03	1.145705E-02	1.028905E-03	4.189547E-03
136.00	8.466537E-03	1.191104E-02	7.573067E-04	4.393124E-03
138.00	8.454803E-03	1.246097E-02	4.916616E-04	4.583242E-03
140.00	8.466440E-03	1.307160E-02	2.330745E-04	4.757190E-03
142.00	8.513071E-03	1.375815E-02	-3.015695E-05	4.930055E-03
144.00	8.606652E-03	1.447945E-02	-3.179189E-04	5.140582E-03
146.00	8.725019E-03	1.520201E-02	-5.961930E-04	5.341690E-03
148.00	8.857056E-03	1.619961E-02	-8.996306E-04	5.544056E-03
150.00	9.016037E-03	1.718320E-02	-1.271603E-03	5.740440E-03
152.00	9.256459E-03	1.827402E-02	-1.726395E-03	5.887309E-03
154.00	9.563576E-03	1.930543E-02	-2.249703E-03	5.946806E-03
156.00	9.903539E-03	2.041094E-02	-2.833470E-03	5.903654E-03
158.00	1.022990E-02	2.140325E-02	-3.516383E-03	5.719654E-03
160.00	1.057930E-02	2.221870E-02	-4.363823E-03	5.321594E-03
162.00	1.097408E-02	2.270514E-02	-5.416433E-03	4.602779E-03
164.00	1.139600E-02	2.273577E-02	-6.669568E-03	3.476130E-03
166.00	1.187760E-02	2.230374E-02	-8.102307E-03	2.019497E-03
168.00	1.262573E-02	2.195716E-02	-9.765424E-03	5.636959E-04
170.00	1.389573E-02	2.177060E-02	-1.191212E-02	-5.481958E-04
172.00	1.578792E-02	2.196874E-02	-1.432971E-02	-1.153504E-03
174.00	1.816698E-02	2.244681E-02	-1.724994E-02	-1.324403E-03
176.00	2.064370E-02	2.300525E-02	-2.031101E-02	-1.113561E-03
178.00	2.282604E-02	2.351009E-02	-2.280045E-02	-5.225222E-04
180.00	2.309975E-02	2.309975E-02	-2.309975E-02	-4.039964E-16

TABLE B2. NORMALIZED PHASE MATRIX FOR TYPE B AEROSOLS, M=1.50-0.01I, R_1=0.06μM, ν=4.0, λ=0.45μ

SCATTERING ANGLE	I1	I2	I3	I4
0.00	8.296027E+00	8.296027E+00	8.296027E+00	-7.187069E-15
.10	8.257459E+00	8.257496E+00	8.257477E+00	-4.173160E-04
.20	8.143534E+00	8.143650E+00	8.143577E+00	-1.637426E-03
.30	7.959298E+00	7.959595E+00	7.959446E+00	-3.568189E-03
.40	7.712924E+00	7.713459E+00	7.713108E+00	-6.060099E-03
.50	7.414904E+00	7.415697E+00	7.415207E+00	-8.955109E-03
.60	7.077350E+00	7.079394E+00	7.077556E+00	-1.203672E-02
.70	6.713169E+00	6.714467E+00	6.713790E+00	-1.511707E-02
.80	6.335294E+00	6.336731E+00	6.335924E+00	-1.802084E-02
.90	5.955455E+00	5.957175E+00	5.956252E+00	-2.060656E-02
1.00	5.594432E+00	5.596297E+00	5.595270E+00	-2.277647E-02
1.10	5.239690E+00	5.232639E+00	5.231549E+00	-2.448071E-02
1.20	4.900517E+00	4.902519E+00	4.901380E+00	-2.571592E-02
1.30	4.597972E+00	4.599971E+00	4.598807E+00	-2.651882E-02
1.40	4.324913E+00	4.326870E+00	4.325701E+00	-2.695624E-02
1.50	4.081325E+00	4.093219E+00	4.092053E+00	-2.711297E-02
1.60	3.865699E+00	3.867497E+00	3.866359E+00	-2.707939E-02
1.70	3.675469E+00	3.677160E+00	3.676057E+00	-2.694039E-02
1.80	3.507456E+00	3.509043E+00	3.507974E+00	-2.676681E-02
1.90	3.359275E+00	3.359760E+00	3.350725E+00	-2.661019E-02
2.00	3.224659E+00	3.226348E+00	3.225346E+00	-2.650096E-02
3.00	2.337560E+00	2.339233E+00	2.337623E+00	-2.652642E-02
4.00	1.864151E+00	1.866436E+00	1.863561E+00	-2.632770E-02
5.00	1.565073E+00	1.565480E+00	1.564476E+00	-2.645751E-02
6.00	1.356417E+00	1.357425E+00	1.355919E+00	-2.697499E-02
7.00	1.209966E+00	1.292749E+00	1.298698E+00	-2.769170E-02
8.00	1.079552E+00	1.081943E+00	1.079208E+00	-2.933625E-02
9.00	9.913657E-01	9.839179E-01	9.937665E-01	-2.871029E-02
10.00	8.997671E-01	9.029430E-01	8.969964E-01	-2.973985E-02
11.00	8.306624E-01	9.321980E-01	8.297924E-01	-2.847435E-02
12.00	7.704969E-01	7.716999E-01	7.692906E-01	-2.802814E-02
13.00	7.177607E-01	7.196104E-01	7.151547E-01	-2.752401E-02
14.00	6.707750E-01	6.714959E-01	6.679365E-01	-2.704236E-02
15.00	6.284972E-01	6.291960E-01	6.255123E-01	-2.661424E-02
16.00	5.902014E-01	5.907705E-01	5.870570E-01	-2.622663E-02
17.00	5.551495E-01	5.555779E-01	5.519393E-01	-2.584742E-02
18.00	5.236938E-01	5.231372E-01	5.197107E-01	-2.544717E-02
19.00	4.947387E-01	4.931310E-01	4.900097E-01	-2.501016E-02
20.00	4.672179E-01	4.657202E-01	4.625385E-01	-2.454028E-02
22.00	4.184963E-01	4.154729E-01	4.132943E-01	-2.355213E-02
24.00	3.761843E-01	3.720149E-01	3.702787E-01	-2.259337E-02
26.00	3.307300E-01	3.335579E-01	3.322920E-01	-2.168743E-02
28.00	3.054425E-01	2.996233E-01	2.985858E-01	-2.060229E-02
30.00	2.762797E-01	2.693670E-01	2.680067E-01	-1.940043E-02
32.00	2.500489E-01	2.423328E-01	2.410469E-01	-1.821978E-02
34.00	2.265359E-01	2.181239E-01	2.170057E-01	-1.699716E-02
36.00	2.055597E-01	1.963307E-01	1.963773E-01	-1.583844E-02
38.00	1.869081E-01	1.757624E-01	1.771245E-01	-1.473695E-02
40.00	1.703574E-01	1.592252E-01	1.590994E-01	-1.369305E-02
42.00	1.552891E-01	1.435572E-01	1.440819E-01	-1.273659E-02
44.00	1.417770E-01	1.295365E-01	1.306270E-01	-1.187079E-02
46.00	1.295724E-01	1.169744E-01	1.191293E-01	-1.105547E-02
48.00	1.185619E-01	1.056598E-01	1.068231E-01	-1.023284E-02
50.00	1.086236E-01	9.546319E-02	9.660470E-02	-9.395963E-03
52.00	9.963576E-02	8.623358E-02	8.736484E-02	-8.573037E-03
54.00	9.153356E-02	7.790580E-02	7.992877E-02	-7.797145E-03
56.00	8.425935E-02	7.039294E-02	7.190360E-02	-7.006099E-03
58.00	7.775599E-02	6.364930E-02	6.472783E-02	-6.424451E-03

SCATTERING ANGLE	I1	I2	I3	I4
60.00	7.191889E-02	5.761430E-02	5.863470E-02	-5.885509E-03
62.00	6.663115E-02	5.222652E-02	5.319714E-02	-5.231829E-03
64.00	6.179179E-02	4.742846E-02	4.821674E-02	-4.786300E-03
66.00	5.734106E-02	4.311776E-02	4.371704E-02	-4.276206E-03
68.00	5.326136E-02	3.923600E-02	3.958055E-02	-3.765107E-03
70.00	4.955283E-02	3.571033E-02	3.579461E-02	-3.302594E-03
72.00	4.619936E-02	3.258131E-02	3.233124E-02	-2.837769E-03
74.00	4.316611E-02	2.959924E-02	2.920743E-02	-2.395514E-03
76.00	4.040686E-02	2.702223E-02	2.641796E-02	-1.999956E-03
78.00	3.780263E-02	2.477120E-02	2.392120E-02	-1.657703E-03
80.00	3.556665E-02	2.281243E-02	2.155303E-02	-1.352203E-03
82.00	3.344350E-02	2.107600E-02	1.954945E-02	-1.050080E-03
84.00	3.150027E-02	1.949684E-02	1.750215E-02	-7.631302E-04
86.00	2.971795E-02	1.803976E-02	1.579442E-02	-4.602133E-04
88.00	2.807785E-02	1.672192E-02	1.409244E-02	-1.829853E-04
90.00	2.656629E-02	1.557300E-02	1.261196E-02	9.250960E-05
92.00	2.517321E-02	1.460599E-02	1.129647E-02	3.233180E-04
94.00	2.389897E-02	1.379025E-02	1.011309E-02	5.433454E-04
96.00	2.271390E-02	1.310239E-02	9.007106E-03	7.506081E-04
98.00	2.167846E-02	1.247084E-02	7.954712E-03	9.409029E-04
100.00	2.065067E-02	1.191497E-02	6.950663E-03	1.140582E-03
102.00	1.976063E-02	1.142940E-02	6.034079E-03	1.325359E-03
104.00	1.893091E-02	1.104505E-02	5.208317E-03	1.503732E-03
106.00	1.814901E-02	1.076551E-02	4.479991E-03	1.676595E-03
108.00	1.741123E-02	1.058910E-02	3.828299E-03	1.848747E-03
110.00	1.672395E-02	1.042831E-02	3.223571E-03	2.024199E-03
112.00	1.618105E-02	1.029617E-02	2.640831E-03	2.201505E-03
114.00	1.556042E-02	1.020651E-02	2.093578E-03	2.373101E-03
116.00	1.509456E-02	1.018110E-02	1.572635E-03	2.530184E-03
118.00	1.468210E-02	1.024430E-02	1.089597E-03	2.673162E-03
120.00	1.430894E-02	1.039484E-02	6.382262E-04	2.811910E-03
122.00	1.393358E-02	1.060056E-02	2.138230E-04	2.955806E-03
124.00	1.358173E-02	1.083234E-02	-1.887753E-04	3.109945E-03
126.00	1.325910E-02	1.108496E-02	-5.403449E-04	3.276526E-03
128.00	1.297180E-02	1.137865E-02	-8.626678E-04	3.450151E-03
130.00	1.272322E-02	1.172739E-02	-1.155806E-03	3.625224E-03
132.00	1.251469E-02	1.213735E-02	-1.443741E-03	3.806880E-03
134.00	1.234249E-02	1.260647E-02	-1.746712E-03	3.990469E-03
136.00	1.221040E-02	1.313320E-02	-2.067844E-03	4.170817E-03
138.00	1.212660E-02	1.373709E-02	-2.398479E-03	4.370306E-03
140.00	1.209416E-02	1.442638E-02	-2.725444E-03	4.560244E-03
142.00	1.210506E-02	1.520110E-02	-3.046685E-03	4.749980E-03
144.00	1.215307E-02	1.604939E-02	-3.372124E-03	4.941607E-03
146.00	1.224459E-02	1.696758E-02	-3.719145E-03	5.146800E-03
148.00	1.238749E-02	1.795032E-02	-4.087037E-03	5.363168E-03
150.00	1.255992E-02	1.899086E-02	-4.469436E-03	5.566429E-03
152.00	1.274111E-02	2.012127E-02	-4.895134E-03	5.729777E-03
154.00	1.295246E-02	2.120165E-02	-5.378695E-03	5.826206E-03
156.00	1.314728E-02	2.239167E-02	-5.960725E-03	5.796571E-03
158.00	1.342599E-02	2.330928E-02	-6.553763E-03	5.599542E-03
160.00	1.371994E-02	2.418834E-02	-7.499807E-03	5.181917E-03
162.00	1.402672E-02	2.467861E-02	-8.508317E-03	4.430679E-03
164.00	1.438563E-02	2.481604E-02	-9.677532E-03	3.330550E-03
166.00	1.472351E-02	2.464524E-02	-1.103902E-02	2.006740E-03
168.00	1.596601E-02	2.434812E-02	-1.265492E-02	6.811020E-04
170.00	1.693494E-02	2.423045E-02	-1.463140E-02	-4.240987E-04
172.00	1.870146E-02	2.450730E-02	-1.700630E-02	-1.142365E-03
174.00	2.102978E-02	2.510607E-02	-2.001991E-02	-1.366132E-03
176.00	2.345105E-02	2.574212E-02	-2.311213E-02	-1.121913E-03
178.00	2.559106E-02	2.625661E-02	-2.564947E-02	-5.060730E-04
180.00	2.661105E-02	2.661105E-02	-2.661105E-02	-3.973914E-16

TABLE 33. NORMALIZED PHASE MATRIX FOR TYPE 3 AEROSOLS, M=1.50-0.01I, R_1=0.06μM, ν=4.0, λ=0.70μ

SCATTERING ANGLE	I1	I2	I3	I4
0.00	5.566002E+00	5.566002E+00	5.566002E+00	-4.786794E-15
.10	5.556109E+00	5.556204E+00	5.556197E+00	-1.735334E-04
.20	5.524554E+00	5.524613E+00	5.524584E+00	-6.005715E-04
.30	5.472490E+00	5.472620E+00	5.472563E+00	-1.528670E-03
.40	5.401000E+00	5.401226E+00	5.401112E+00	-2.467276E-03
.50	5.311300E+00	5.311730E+00	5.311556E+00	-4.060032E-03
.60	5.205296E+00	5.205770E+00	5.205528E+00	-4.698421E-03
.70	5.084619E+00	5.085292E+00	5.084915E+00	-7.403587E-03
.80	4.951434E+00	4.952196E+00	4.951801E+00	-9.396415E-03
.90	4.807976E+00	4.808805E+00	4.808489E+00	-1.137569E-02
1.00	4.656541E+00	4.657509E+00	4.657033E+00	-1.336904E-02
1.10	4.499436E+00	4.500618E+00	4.499978E+00	-1.532696E-02
1.20	4.338915E+00	4.340199E+00	4.339497E+00	-1.720464E-02
1.30	4.177125E+00	4.178499E+00	4.177735E+00	-1.896344E-02
1.40	4.016058E+00	4.017499E+00	4.016681E+00	-2.057204E-02
1.50	3.857500E+00	3.858909E+00	3.858129E+00	-2.208719E-02
1.60	3.703032E+00	3.704533E+00	3.703640E+00	-2.325404E-02
1.70	3.553958E+00	3.555463E+00	3.554528E+00	-2.430601E-02
1.80	3.411380E+00	3.412770E+00	3.411845E+00	-2.516434E-02
1.90	3.275094E+00	3.277303E+00	3.276370E+00	-2.583720E-02
2.00	3.148237E+00	3.149574E+00	3.148650E+00	-2.633097E-02
3.00	2.277203E+00	2.277607E+00	2.276943E+00	-2.665541E-02
4.00	1.827093E+00	1.827491E+00	1.826647E+00	-2.706370E-02
5.00	1.536211E+00	1.539021E+00	1.533752E+00	-2.720407E-02
6.00	1.332101E+00	1.333154E+00	1.331569E+00	-2.746116E-02
7.00	1.180478E+00	1.181867E+00	1.179489E+00	-2.756611E-02
8.00	1.062691E+00	1.062645E+00	1.061034E+00	-2.757655E-02
9.00	9.669485E-01	9.664415E-01	9.647933E-01	-2.742815E-02
10.00	8.873609E-01	8.867803E-01	8.848830E-01	-2.726865E-02
11.00	8.196867E-01	8.187612E-01	8.166919E-01	-2.711701E-02
12.00	7.606135E-01	7.599169E-01	7.576309E-01	-2.698680E-02
13.00	7.089461E-01	7.080511E-01	7.056615E-01	-2.670342E-02
14.00	6.630200E-01	6.619696E-01	6.594447E-01	-2.649003E-02
15.00	6.216503E-01	6.204093E-01	6.170617E-01	-2.610767E-02
16.00	5.841037E-01	5.828913E-01	5.801749E-01	-2.570363E-02
17.00	5.497063E-01	5.484857E-01	5.457260E-01	-2.529924E-02
18.00	5.182917E-01	5.16 979E-01	5.140650E-01	-2.489039E-02
19.00	4.892081E-01	4.876709E-01	4.848354E-01	-2.444132E-02
20.00	4.624309E-01	4.602666E-01	4.577510E-01	-2.395224E-02
22.00	4.141985E-01	4.112537E-01	4.090531E-01	-2.293402E-02
24.00	3.721547E-01	3.602365E-01	3.664289E-01	-2.195494E-02
26.00	3.353699E-01	3.332492E-01	3.209116E-01	-2.092214E-02
28.00	3.028709E-01	2.966283E-01	2.957365E-01	-1.986037E-02
30.00	2.740315E-01	2.667490E-01	2.662523E-01	-1.883359E-02
32.00	2.484084E-01	2.401153E-01	2.399827E-01	-1.779282E-02
34.00	2.255873E-01	2.163267E-01	2.165119E-01	-1.673393E-02
36.00	2.049307E-01	1.949930E-01	1.954379E-01	-1.571150E-02
38.00	1.864915E-01	1.737682E-01	1.764609E-01	-1.469765E-02
40.00	1.699107E-01	1.594640E-01	1.593792E-01	-1.367972E-02
42.00	1.550072E-01	1.420584E-01	1.440093E-01	-1.271104E-02
44.00	1.416639E-01	1.280427E-01	1.301910E-01	-1.180787E-02
46.00	1.297506E-01	1.162783E-01	1.177909E-01	-1.093509E-02
48.00	1.190794E-01	1.050372E-01	1.066065E-01	-1.010117E-02
50.00	1.094533E-01	9.494260E-02	9.646677E-02	-9.313891E-03
52.00	1.007519E-01	8.582358E-02	8.757980E-02	-8.549116E-03
54.00	9.284680E-02	7.756632E-02	7.933281E-02	-7.798746E-03
56.00	8.565906E-02	7.010023E-02	7.186659E-02	-7.093170E-03
58.00	7.917218E-02	6.340580E-02	6.512226E-02	-6.445626E-03

SCATTERING ANGLE	I1	I2	I3	I4
60.00	7.335219E-02	5.741057E-02	5.904046E-02	-5.934321E-03
62.00	6.809973E-02	5.205018E-02	5.355680E-02	-5.269616E-03
64.00	6.330970E-02	4.722978E-02	4.850614E-02	-4.705256E-03
66.00	5.892790E-02	4.246596E-02	4.403750E-02	-4.204150E-03
68.00	5.494771E-02	3.891476E-02	3.997592E-02	-3.732619E-03
70.00	5.134055E-02	3.536595E-02	3.609305E-02	-3.281905E-03
72.00	4.805805E-02	3.220017E-02	3.267300E-02	-2.856979E-03
74.00	4.506075E-02	2.940036E-02	2.957031E-02	-2.459538E-03
76.00	4.232199E-02	2.680154E-02	2.672976E-02	-2.085547E-03
78.00	3.980949E-02	2.460516E-02	2.411540E-02	-1.731625E-03
80.00	3.748993E-02	2.255981E-02	2.172112E-02	-1.395712E-03
82.00	3.534746E-02	2.074864E-02	1.954447E-02	-1.076252E-03
84.00	3.330374E-02	1.915609E-02	1.756745E-02	-7.714704E-04
86.00	3.159704E-02	1.774673E-02	1.575049E-02	-4.930769E-04
88.00	2.996050E-02	1.649864E-02	1.409150E-02	-2.146142E-04
90.00	2.846948E-02	1.537981E-02	1.255541E-02	3.336498E-05
92.00	2.707736E-02	1.441637E-02	1.114715E-02	2.662097E-04
94.00	2.578582E-02	1.359303E-02	9.859274E-03	4.917245E-04
96.00	2.459790E-02	1.290797E-02	8.674585E-03	7.109304E-04
98.00	2.351250E-02	1.227518E-02	7.573462E-03	9.180447E-04
100.00	2.251953E-02	1.175305E-02	6.546200E-03	1.110296E-03
102.00	2.160352E-02	1.133305E-02	5.595212E-03	1.293004E-03
104.00	2.075164E-02	1.100507E-02	4.723752E-03	1.475012E-03
106.00	1.995094E-02	1.076799E-02	3.924304E-03	1.655462E-03
108.00	1.922805E-02	1.055191E-02	3.145996E-03	1.828469E-03
110.00	1.856451E-02	1.042640E-02	2.490244E-03	1.994246E-03
112.00	1.796729E-02	1.037039E-02	1.856417E-03	2.154629E-03
114.00	1.742435E-02	1.038013E-02	1.259214E-03	2.300074E-03
116.00	1.691910E-02	1.044330E-02	7.033217E-04	2.452185E-03
118.00	1.644210E-02	1.055965E-02	1.839270E-04	2.592093E-03
120.00	1.600097E-02	1.073175E-02	-3.048453E-04	2.738605E-03
122.00	1.560837E-02	1.095163E-02	-7.653342E-04	2.894209E-03
124.00	1.526920E-02	1.121593E-02	-1.295095E-03	3.051963E-03
126.00	1.497637E-02	1.152802E-02	-1.629306E-03	3.207803E-03
128.00	1.472153E-02	1.189563E-02	-2.035106E-03	3.366224E-03
130.00	1.449702E-02	1.231626E-02	-2.414095E-03	3.530421E-03
132.00	1.429049E-02	1.279640E-02	-2.764764E-03	3.701073E-03
134.00	1.412599E-02	1.333377E-02	-3.094344E-03	3.883623E-03
136.00	1.398483E-02	1.393140E-02	-3.415069E-03	4.073964E-03
138.00	1.387951E-02	1.458506E-02	-3.740725E-03	4.262533E-03
140.00	1.381137E-02	1.530285E-02	-4.075793E-03	4.441303E-03
142.00	1.378130E-02	1.609467E-02	-4.431624E-03	4.617253E-03
144.00	1.379451E-02	1.697067E-02	-4.809476E-03	4.803408E-03
146.00	1.385037E-02	1.793974E-02	-5.193396E-03	5.004230E-03
148.00	1.397033E-02	1.899372E-02	-5.5[illegible]1692E-03	5.210873E-03
150.00	1.412946E-02	2.011336E-02	-6.0[illegible]4975E-03	5.407395E-03
152.00	1.431608E-02	2.126923E-02	-6.464497E-03	5.5671[illegible]7E-03
154.00	1.454053E-02	2.244318E-02	-6.982619E-03	5.655910E-03
156.00	1.476906E-02	2.359210E-02	-7.594083E-03	5.617583E-03
158.00	1.503021E-02	2.464420E-02	-8.307070E-03	5.405910E-03
160.00	1.532771E-02	2.540205E-02	-9.161406E-03	4.951739E-03
162.00	1.563039E-02	2.601833E-02	-1.016896E-02	4.210472E-03
164.00	1.598599E-02	2.613305E-02	-1.132734E-02	3.144142E-03
166.00	1.645933E-02	2.591114E-02	-1.263504E-02	1.842601E-03
168.00	1.722524E-02	2.559223E-02	-1.414745E-02	5.760046E-04
170.00	1.840221E-02	2.544100E-02	-1.601994E-02	-4.554045E-04
172.00	2.006292E-02	2.556463E-02	-1.833407E-02	-1.119826E-03
174.00	2.217998E-02	2.594003E-02	-2.107327E-02	-1.364001E-03
176.00	2.435991E-02	2.640220E-02	-2.397275E-02	-1.161142E-03
178.00	2.636011E-02	2.699776E-02	-2.642005E-02	-5.290055E-04
180.00	2.736255E-02	2.736255E-02	-2.736255E-02	-3.616006E-16

TABLE 34. NORMALIZED PHASE MATRIX FOR TYPE 3 AEROSOLS, M=1.50-0.01I, R_1=0.06μM, ν=4.0, λ=1.60μ

SCATTERING ANGLE	I1	I2	I3	I4
0.00	2.848326E+00	2.848326E+00	2.848326E+00	-2.266953E-15
.10	2.847298E+00	2.847296E+00	2.847293E+00	-3.507172E-05
.20	2.844188E+00	2.844211E+00	2.844200E+00	-1.400632E-04
.30	2.839030E+00	2.839083E+00	2.839057E+00	-3.143056E-04
.40	2.831837E+00	2.831931E+00	2.831884E+00	-5.566909E-04
.50	2.822635E+00	2.822780E+00	2.822708E+00	-8.656811E-04
.60	2.811459E+00	2.811667E+00	2.811562E+00	-1.239323E-03
.70	2.798349E+00	2.798630E+00	2.798489E+00	-1.675267E-03
.80	2.783355E+00	2.783719E+00	2.783536E+00	-2.170782E-03
.90	2.766532E+00	2.766989E+00	2.766758E+00	-2.722799E-03
1.00	2.747941E+00	2.748499E+00	2.748216E+00	-3.327877E-03
1.10	2.727649E+00	2.728317E+00	2.727977E+00	-3.982345E-03
1.20	2.705729E+00	2.706514E+00	2.706114E+00	-4.682225E-03
1.30	2.682259E+00	2.683169E+00	2.682703E+00	-5.423321E-03
1.40	2.657320E+00	2.658361E+00	2.657827E+00	-6.201242E-03
1.50	2.631001E+00	2.632177E+00	2.631571E+00	-7.011441E-03
1.60	2.603390E+00	2.604707E+00	2.604026E+00	-7.849256E-03
1.70	2.574580E+00	2.576041E+00	2.575282E+00	8.709942E-03
1.80	2.544667E+00	2.546275E+00	2.545436E+00	-9.589717E-03
1.90	2.513748E+00	2.515505E+00	2.514584E+00	-1.048080E-02
2.00	2.491921E+00	2.493829E+00	2.492824E+00	-1.138143E-02
3.00	2.135359E+00	2.138574E+00	2.136912E+00	-1.990926E-02
4.00	1.797425E+00	1.801689E+00	1.799138E+00	-2.549071E-02
5.00	1.522968E+00	1.527183E+00	1.524248E+00	-2.753719E-02
6.00	1.321255E+00	1.325297E+00	1.322213E+00	-2.756[illegible]E-02
7.00	1.174763E+00	1.178459E+00	1.175295E+00	-2.734932E-02
8.00	1.061163E+00	1.064606E+00	1.061313E+00	-2.751115E-02
9.00	9.668998E-01	9.701481E-01	9.666724E-01	-2.776129E-02
10.00	8.868663E-01	8.898889E-01	8.862374E-01	-2.775594E-02
11.00	8.185837E-01	8.216798E-01	8.178516E-01	-2.752217E-02
12.00	7.605469E-01	7.629559E-01	7.590996E-01	-2.725211E-02
13.00	7.092414E-01	7.112935E-01	7.073974E-01	-2.700674E-02
14.00	6.633405E-01	6.649908E-01	6.611018E-01	-2.671658E-02
15.00	6.220409E-01	6.232336E-01	6.194113E-01	-2.634479E-02
16.00	5.847158E-01	5.854071E-01	5.817120E-01	-2.593511E-02
17.00	5.506633E-01	5.508251E-01	5.473013E-01	-2.552653E-02
18.00	5.197246E-01	5.199268E-01	5.156384E-01	-2.510159E-02
19.00	4.904100E-01	4.894105E-01	4.863327E-01	-2.463279E-02
20.00	4.637267E-01	4.620894E-01	4.592860E-01	-2.413374E-02
22.00	4.159211E-01	4.130262E-01	4.107779E-01	-2.316016E-02
24.00	3.739686E-01	3.699464E-01	3.691415E-01	-2.216775E-02
26.00	3.371283E-01	3.320035E-01	3.306947E-01	-2.112668E-02
28.00	3.045564E-01	2.993562E-01	2.974677E-01	-2.009430E-02
30.00	2.755517E-01	2.683515E-01	2.678424E-01	-1.907305E-02
32.00	2.497365E-01	2.415993E-01	2.414278E-01	-1.795779E-02
34.00	2.266777E-01	2.176108E-01	2.177804E-01	-1.688303E-02
36.00	2.060356E-01	1.960561E-01	1.965519E-01	-1.591406E-02
38.00	1.876396E-01	1.767493E-01	1.775564E-01	-1.476215E-02
40.00	1.711409E-01	1.593809E-01	1.604767E-01	-1.375692E-02
42.00	1.563153E-01	1.437446E-01	1.451009E-01	-1.27[illegible]63E-02
44.00	1.438190E-01	1.296993E-01	1.31[illegible]67E-01	-1.18[illegible]09E-02
46.00	1.319860E-01	1.170557E-01	1.188087E-01	-1.098724E-02
48.00	1.202006E-01	1.056995E-01	1.075698E-01	-1.012923E-02
50.00	1.104711E-01	9.547298E-02	9.764253E-02	-9.314499E-03
52.00	1.015077E-01	8.628169E-02	8.829484E-02	-8.527137E-03
54.00	9.379650E-02	7.800494E-02	8.034135E-02	-7.782270E-03
56.00	8.664397E-02	7.053547E-02	7.256211E-02	-7.087425E-03
58.00	8.019997E-02	6.380731E-02	6.579455E-02	-6.431835E-03

SCATTERING ANGLE	I1	I2	I3	I4
60.00	7.435912E-02	5.775227E-02	5.956273E-02	-5.830359E-03
62.00	6.904393E-02	5.231269E-02	5.409475E-02	-5.259186E-03
64.00	6.422212E-02	4.743516E-02	4.915099E-02	-4.718434E-03
66.00	5.983203E-02	4.305191E-02	4.446034E-02	-4.203593E-03
68.00	5.585[illegible]E-02	3.910391E-02	4.028757E-02	-3.705124E-03
70.00	5.225217E-02	3.554744E-02	3.649286E-02	-3.244982E-03
72.00	4.895963E-02	3.234925E-02	3.303005E-02	-2.817919E-03
74.00	4.594956E-02	2.948542E-02	2.987714E-02	-2.425653E-03
76.00	4.317991E-02	2.693457E-02	2.699418E-02	-2.062788E-03
78.00	4.064167E-02	2.466154E-02	2.435742E-02	-1.784469E-03
80.00	3.832876E-02	2.263268E-02	2.194759E-02	-1.369735E-03
82.00	3.621609E-02	2.081923E-02	1.973866E-02	-1.046384E-03
84.00	3.428958E-02	1.919944E-02	1.771835E-02	-7.460792E-04
86.00	3.250423E-02	1.776667E-02	1.586485E-02	-4.736263E-04
88.00	3.085439E-02	1.650940E-02	1.416151E-02	-2.165182E-04
90.00	2.933311E-02	1.541428E-02	1.259586E-02	2.975735E-05
92.00	2.793387E-02	1.446172E-02	1.115239E-02	2.706972E-04
94.00	2.665302E-02	1.363216E-02	9.823963E-03	5.045095E-04
96.00	2.547836E-02	1.291[illegible]1E-02	8.599805E-03	7.234747E-04
98.00	2.439134E-02	1.230372E-02	7.471497E-03	9.281839E-04
100.00	2.338436E-02	1.179587E-02	6.432006E-03	1.121735E-03
102.00	2.245299E-02	1.138553E-02	5.470272E-03	1.307138E-03
104.00	2.[illegible]191E-02	1.106202E-02	4.579065E-03	1.489045E-03
106.00	2.080139E-02	1.081438E-02	3.750465E-03	1.664079E-03
108.00	2.007461E-02	1.063945E-02	2.976991E-03	1.833768E-03
110.00	1.940336E-02	1.053275E-02	2.258035E-03	1.999895E-03
112.00	1.879784E-02	1.049247E-02	1.599442E-03	2.161705E-03
114.00	1.822680E-02	1.051404E-02	9.668120E-04	2.324417E-03
116.00	1.771059E-02	1.058899E-02	3.899336E-04	2.495093E-03
118.00	1.723916E-02	1.071794E-02	-1.524502E-04	2.629601E-03
120.00	1.680990E-02	1.090534E-02	-6.645161E-04	2.789915E-03
122.00	1.641407E-02	1.115058E-02	-1.147082E-03	2.937295E-03
124.00	1.605777E-02	1.145213E-02	-1.603912E-03	3.089785E-03
126.00	1.574595E-02	1.180546E-02	-2.040619E-03	3.249373E-03
128.00	1.547998E-02	1.220396E-02	-2.456214E-03	3.412452E-03
130.00	1.524685E-02	1.264992E-02	-2.852446E-03	3.576924E-03
132.00	1.504847E-02	1.315369E-02	-3.235254E-03	3.742389E-03
134.00	1.488251E-02	1.371922E-02	-3.606210E-03	3.912769E-03
136.00	1.474748E-02	1.434526E-02	-3.960675E-03	4.088653E-03
138.00	1.464647E-02	1.503380E-02	-4.317057E-03	4.270221E-03
140.00	1.459924E-02	1.579168E-02	-4.669162E-03	4.460159E-03
142.00	1.456578E-02	1.662400E-02	-5.027100E-03	4.657829E-03
144.00	1.459752E-02	1.753365E-02	-5.397522E-03	4.86[illegible]55E-03
146.00	1.465217E-02	1.852330E-02	-5.797750E-03	5.066743E-03
148.00	1.476196E-02	1.958538E-02	-6.237699E-03	5.266898E-03
150.00	1.491516E-02	2.071297E-02	-6.650374E-03	5.44[illegible]E-03
152.00	1.510699E-02	2.188205E-02	-7.137474E-03	5.591021E-03
154.00	1.533953E-02	2.307752E-02	-7.691554E-03	5.672113E-03
156.00	1.560751E-02	2.423985E-02	-8.307902E-03	5.651733E-03
158.00	1.590210E-02	2.529530E-02	-9.034727E-03	5.469[illegible]E-03
160.00	1.619995E-02	2.614640E-02	-9.891849E-03	4.956599E-03
162.00	1.647881E-02	2.657150E-02	-1.097259E-02	4.329851E-03
164.00	1.679125E-02	2.680624E-02	-1.202250E-02	3.278705E-03
166.00	1.719951E-02	2.651122E-02	-1.335289E-02	1.980742E-03
168.00	1.792305E-02	2.634226E-02	-1.499463E-02	6.748324E-04
170.00	1.912528E-02	2.623734E-02	-1.681438E-02	-3.891032E-04
172.00	2.082973E-02	2.663631E-02	-1.971998E-02	-1.092981E-03
174.00	2.297949E-02	2.693941E-02	-2.204771E-02	-1.[illegible]455E-03
176.00	2.522568E-02	2.743479E-02	-2.514676E-02	-1.202999E-03
178.00	2.743664E-02	2.806396E-02	-2.751303E-02	-5.146253E-04
180.00	2.849655E-02	2.849655E-02	-2.849655E-02	-3.447599E-16

TABLE 35. NORMALIZED PHASE MATRIX FOR TYPE 3 AEROSOLS, N=1.50-0.01I, R_1=0.01μM, ν=4.5, λ=0.30μ

SCATTERING ANGLE	I1	I2	I3	I4
0.00	2.955503E+00	2.955503E+00	2.955503E+00	-2.512525E-15
.10	2.938202E+00	2.938215E+00	2.938205E+00	-1.421176E-04
.20	2.887902E+00	2.887951E+00	2.887926E+00	-5.481840E-04
.30	2.809147E+00	2.809251E+00	2.809198E+00	-1.161845E-03
.40	2.709733E+00	2.708875E+00	2.708785E+00	-1.902969E-03
.50	2.594829E+00	2.594775E+00	2.594642E+00	-2.684415E-03
.60	2.474642E+00	2.474961E+00	2.474795E+00	-3.428910E-03
.70	2.356133E+00	2.356492E+00	2.356288E+00	-4.081936E-03
.80	2.244300E+00	2.244752E+00	2.244512E+00	-4.617741E-03
.90	2.142607E+00	2.143115E+00	2.142843E+00	-5.038087E-03
1.00	2.052438E+00	2.052999E+00	2.052696E+00	-5.364892E-03
1.10	1.973611E+00	1.974223E+00	1.973889E+00	-5.629781E-03
1.20	1.904877E+00	1.905539E+00	1.905176E+00	-5.853807E-03
1.30	1.844498E+00	1.845284E+00	1.844810E+00	-6.090016E-03
1.40	1.790673E+00	1.791443E+00	1.791016E+00	-6.320264E-03
1.50	1.741935E+00	1.742768E+00	1.742307E+00	-6.556136E-03
1.60	1.697286E+00	1.698103E+00	1.697605E+00	-6.792652E-03
1.70	1.655807E+00	1.656768E+00	1.656233E+00	-7.022844E-03
1.80	1.617345E+00	1.618373E+00	1.617799E+00	-7.241497E-03
1.90	1.581583E+00	1.582679E+00	1.582066E+00	-7.447810E-03
2.00	1.548325E+00	1.549491E+00	1.548839E+00	-7.641262E-03
3.00	1.306533E+00	1.308461E+00	1.307362E+00	-9.377460E-03
4.00	1.152743E+00	1.155617E+00	1.154064E+00	-1.081773E-02
5.00	1.041936E+00	1.045217E+00	1.043260E+00	-1.205687E-02
6.00	9.555170E-01	9.592255E-01	9.569393E-01	-1.316473E-02
7.00	8.849732E-01	8.888552E-01	8.863502E-01	-1.419344E-02
8.00	8.255333E-01	8.292302E-01	8.266540E-01	-1.515923E-02
9.00	7.741600E-01	7.774887E-01	7.749084E-01	-1.604449E-02
10.00	7.290000E-01	7.314056E-01	7.291921E-01	-1.685785E-02
11.00	6.885798E-01	6.901648E-01	6.881892E-01	-1.758225E-02
12.00	6.522986E-01	6.525565E-01	6.509639E-01	-1.819885E-02
13.00	6.188423E-01	6.180182E-01	6.168244E-01	-1.869987E-02
14.00	5.883272E-01	5.860525E-01	5.852752E-01	-1.908204E-02
15.00	5.593518E-01	5.563344E-01	5.559381E-01	-1.934239E-02
16.00	5.325059E-01	5.285801E-01	5.285893E-01	-1.949021E-02
17.00	5.072638E-01	5.025925E-01	5.027930E-01	-1.954437E-02
18.00	4.834935E-01	4.781585E-01	4.786089E-01	-1.952551E-02
19.00	4.610617E-01	4.551284E-01	4.558126E-01	-1.945781E-02
20.00	4.398792E-01	4.333281E-01	4.342752E-01	-1.936780E-02
22.00	4.009536E-01	3.929908E-01	3.945444E-01	-1.919691E-02
24.00	3.661203E-01	3.564371E-01	3.587075E-01	-1.905600E-02
26.00	3.348554E-01	3.232869E-01	3.262895E-01	-1.882845E-02
28.00	3.066974E-01	2.932390E-01	2.969370E-01	-1.838545E-02
30.00	2.811858E-01	2.659354E-01	2.703808E-01	-1.774559E-02
32.00	2.579645E-01	2.411039E-01	2.460900E-01	-1.703730E-02
34.00	2.367460E-01	2.188850E-01	2.240860E-01	-1.633813E-02
36.00	2.175354E-01	1.981560E-01	2.040720E-01	-1.565452E-02
38.00	2.001123E-01	1.795286E-01	1.858383E-01	-1.498736E-02
40.00	1.843689E-01	1.625397E-01	1.692050E-01	-1.432562E-02
42.00	1.701456E-01	1.471130E-01	1.540747E-01	-1.360340E-02
44.00	1.572593E-01	1.330523E-01	1.403030E-01	-1.279905E-02
46.00	1.455243E-01	1.203453E-01	1.277684E-01	-1.195741E-02
48.00	1.348224E-01	1.088091E-01	1.163850E-01	-1.110226E-02
50.00	1.250709E-01	9.835875E-02	1.060380E-01	-1.020863E-02
52.00	1.162013E-01	8.886420E-02	9.661602E-02	-9.531687E-03
54.00	1.081813E-01	8.027287E-02	8.803385E-02	-8.832417E-03
56.00	1.009330E-01	7.246474E-02	8.019042E-02	-8.106967E-03
58.00	9.436555E-02	6.539956E-02	7.301765E-02	-7.575781E-03

SCATTERING ANGLE	I1	I2	I3	I4
60.00	8.839320E-02	5.901208E-02	6.645744E-02	-6.975750E-03
62.00	8.290787E-02	5.323401E-02	6.044849E-02	-6.397254E-03
64.00	7.785459E-02	4.803740E-02	5.496095E-02	-5.825469E-03
66.00	7.319950E-02	4.334863E-02	4.993555E-02	-5.291370E-03
68.00	6.893250E-02	3.914256E-02	4.532474E-02	-4.783676E-03
70.00	6.489876E-02	3.535442E-02	4.108034E-02	-4.306435E-03
72.00	6.123306E-02	3.195026E-02	3.716658E-02	-3.856902E-03
74.00	5.786534E-02	2.890923E-02	3.354322E-02	-3.425735E-03
76.00	5.473591E-02	2.617938E-02	3.019375E-02	-3.000299E-03
78.00	5.197595E-02	2.373033E-02	2.710093E-02	-2.581373E-03
80.00	4.942112E-02	2.156844E-02	2.425845E-02	-2.168784E-03
82.00	4.709581E-02	1.964884E-02	2.164745E-02	-1.771585E-03
84.00	4.494365E-02	1.793349E-02	1.925455E-02	-1.399873E-03
86.00	4.295839E-02	1.644955E-02	1.705532E-02	-1.062773E-03
88.00	4.109655E-02	1.515476E-02	1.502390E-02	-7.449733E-04
90.00	3.933157E-02	1.404373E-02	1.313407E-02	-5.091931E-04
92.00	3.765701E-02	1.310589E-02	1.136425E-02	-2.572922E-04
94.00	3.607963E-02	1.232467E-02	9.700587E-03	-2.037724E-05
96.00	3.461224E-02	1.168298E-02	8.135949E-03	2.248795E-04
98.00	3.325957E-02	1.116603E-02	6.664945E-03	4.827012E-04
100.00	3.205991E-02	1.075665E-02	5.292027E-03	7.446206E-04
102.00	3.097552E-02	1.044093E-02	4.018810E-03	9.997591E-04
104.00	2.999300E-02	1.021921E-02	2.834292E-03	1.237443E-03
106.00	2.909309E-02	1.008875E-02	1.744063E-03	1.444346E-03
108.00	2.823946E-02	1.005327E-02	7.229023E-04	1.624201E-03
110.00	2.742113E-02	1.011477E-02	-2.395701E-04	1.784844E-03
112.00	2.663467E-02	1.025845E-02	-1.145124E-03	1.935417E-03
114.00	2.583377E-02	1.047427E-02	-2.006140E-03	2.090737E-03
116.00	2.517019E-02	1.074299E-02	-2.827320E-03	2.248146E-03
118.00	2.452219E-02	1.105393E-02	-3.593182E-03	2.413455E-03
120.00	2.391955E-02	1.140267E-02	-4.315630E-03	2.575381E-03
122.00	2.337239E-02	1.179911E-02	-4.993270E-03	2.735684E-03
124.00	2.287947E-02	1.225284E-02	-5.632483E-03	2.880875E-03
126.00	2.242357E-02	1.277840E-02	-6.244182E-03	3.015161E-03
128.00	2.202235E-02	1.336751E-02	-6.834191E-03	3.138970E-03
130.00	2.165352E-02	1.401472E-02	-7.421418E-03	3.259634E-03
132.00	2.133235E-02	1.469953E-02	-8.001350E-03	3.384130E-03
134.00	2.105902E-02	1.541479E-02	-8.574492E-03	3.514238E-03
136.00	2.082938E-02	1.615954E-02	-9.132055E-03	3.651341E-03
138.00	2.063396E-02	1.693996E-02	-9.665769E-03	3.782945E-03
140.00	2.046436E-02	1.777269E-02	-1.018214E-02	3.900913E-03
142.00	2.032291E-02	1.865938E-02	-1.069346E-02	4.000317E-03
144.00	2.020817E-02	1.958799E-02	-1.121232E-02	4.071627E-03
146.00	2.012569E-02	2.054045E-02	-1.174398E-02	4.120253E-03
148.00	2.009496E-02	2.149736E-02	-1.228948E-02	4.159143E-03
150.00	2.008061E-02	2.245869E-02	-1.284653E-02	4.182608E-03
152.00	2.007040E-02	2.339928E-02	-1.341544E-02	4.167596E-03
154.00	2.010636E-02	2.434285E-02	-1.401131E-02	4.088487E-03
156.00	2.011743E-02	2.526451E-02	-1.466937E-02	3.920292E-03
158.00	2.017011E-02	2.610839E-02	-1.542398E-02	3.630583E-03
160.00	2.029214E-02	2.676615E-02	-1.627870E-02	3.179536E-03
162.00	2.045035E-02	2.714687E-02	-1.720889E-02	2.544669E-03
164.00	2.070794E-02	2.724671E-02	-1.819474E-02	1.751026E-03
166.00	2.105952E-02	2.717025E-02	-1.925208E-02	8.933330E-04
168.00	2.164562E-02	2.700779E-02	-2.044605E-02	1.234453E-04
170.00	2.253729E-02	2.713136E-02	-2.185998E-02	-4.317684E-04
172.00	2.377069E-02	2.734612E-02	-2.350679E-02	-7.243842E-04
174.00	2.526409E-02	2.769708E-02	-2.526156E-02	-7.588631E-04
176.00	2.682036E-02	2.810733E-02	-2.695652E-02	-5.782103E-04
178.00	2.812367E-02	2.848776E-02	-2.823182E-02	-2.258401E-04
180.00	2.869339E-02	2.869399E-02	-2.869399E-02	-1.328983E-16

TABLE 36. NORMALIZED PHASE MATRIX FOR TYPE 3 AEROSOLS, M=1.50-0.01I, R_1=0.01μM, ν=4.5, λ=0.45μ

SCATTERING ANGLE	I1	I2	I3	I4
0.00	2.495907E+00	2.495907E+00	2.495907E+00	-2.397383E-15
.10	2.489325E+00	2.489304E+00	2.489380E+00	-7.823928E-05
.20	2.470851E+00	2.470888E+00	2.470869E+00	-3.878528E-04
.30	2.438734E+00	2.438815E+00	2.438774E+00	-6.748417E-04
.40	2.396692E+00	2.396831E+00	2.396761E+00	-1.153808E-03
.50	2.345568E+00	2.345776E+00	2.345678E+00	-1.718228E-03
.60	2.287267E+00	2.287554E+00	2.287403E+00	-2.335203E-03
.70	2.223832E+00	2.224281E+00	2.224812E+00	-2.972488E-03
.80	2.157307E+00	2.157761E+00	2.157526E+00	-3.600411E-03
.90	2.088623E+00	2.098161E+00	2.089881E+00	-4.194218E-03
1.00	2.022495E+00	2.023115E+00	2.022790E+00	-4.735675E-03
1.10	1.957258E+00	1.958847E+00	1.957878E+00	-5.213842E-03
1.20	1.895279E+00	1.896349E+00	1.895639E+00	-5.624991E-03
1.30	1.837827E+00	1.837467E+00	1.837416E+00	-5.971768E-03
1.40	1.783307E+00	1.783913E+00	1.783423E+00	-6.261792E-03
1.50	1.733337E+00	1.734387E+00	1.733780E+00	-6.505849E-03
1.60	1.687839E+00	1.688931E+00	1.688369E+00	-6.716159E-03
1.70	1.646338E+00	1.647491E+00	1.645892E+00	-6.904599E-03
1.80	1.609438E+00	1.609505E+00	1.608950E+00	-7.081423E-03
1.90	1.573542E+00	1.574759E+00	1.574888E+00	-7.254386E-03
2.00	1.541293E+00	1.542564E+00	1.541855E+00	-7.428387E-03
3.00	1.383142E+00	1.385044E+00	1.303964E+00	-9.115710E-03
4.00	1.151144E+00	1.153475E+00	1.152106E+00	-1.052515E-02
5.00	1.041257E+00	1.043718E+00	1.042191E+00	-1.184624E-02
6.00	9.557943E-01	9.580542E-01	9.565083E-01	-1.313269E-02
7.00	8.868824E-01	8.874459E-01	8.863767E-01	-1.435708E-02
8.00	8.270455E-01	8.283312E-01	8.269758E-01	-1.545730E-02
9.00	7.759238E-01	7.766486E-01	7.753926E-01	-1.630064E-02
10.00	7.307083E-01	7.309308E-01	7.297459E-01	-1.711407E-02
11.00	6.901359E-01	6.899108E-01	6.887511E-01	-1.768579E-02
12.00	6.532053E-01	6.526242E-01	6.514912E-01	-1.914778E-02
13.00	6.191580E-01	6.183028E-01	6.172953E-01	-1.855085E-02
14.00	5.889345E-01	5.866704E-01	5.856665E-01	-1.992244E-02
15.00	5.590637E-01	5.571064E-01	5.562355E-01	-1.926821E-02
16.00	5.319398E-01	5.294090E-01	5.287231E-01	-1.954305E-02
17.00	5.066824E-01	5.033659E-01	5.029199E-01	-1.974573E-02
18.00	4.829294E-01	4.788143E-01	4.796422E-01	-1.985413E-02
19.00	4.606777E-01	4.566236E-01	4.557689E-01	-1.987083E-02
20.00	4.394920E-01	4.336838E-01	4.341497E-01	-1.981245E-02
22.00	4.005716E-01	3.931655E-01	3.943134E-01	-1.956141E-02
24.00	3.657910E-01	3.565726E-01	3.584209E-01	-1.922047E-02
26.00	3.344319E-01	3.233943E-01	3.259764E-01	-1.878533E-02
28.00	3.062959E-01	2.932615E-01	2.966864E-01	-1.824640E-02
30.00	2.808648E-01	2.659129E-01	2.699875E-01	-1.764524E-02
32.00	2.575150E-01	2.410978E-01	2.458199E-01	-1.702153E-02
34.00	2.366619E-01	2.185462E-01	2.238318E-01	-1.639853E-02
36.00	2.173356E-01	1.980524E-01	2.038161E-01	-1.574719E-02
38.00	2.0[illegible]E-01	1.794288E-01	1.855911E-01	-1.582961E-02
40.00	1.842765E-01	1.624850E-01	1.690044E-01	-1.424658E-02
42.00	1.693765E-01	1.47085[illegible]E-01	1.539111E-01	-1.342667E-02
44.00	1.570112E-01	1.330752E-01	1.401750E-01	-1.260600E-02
46.00	1.452338E-01	1.283252E-01	1.276733E-01	-1.179997E-02
48.00	1.347067E-01	1.087363E-01	1.163003E-01	-1.101415E-02
50.00	1.251153E-01	9.822800E-02	1.059610E-01	-1.026646E-02
52.00	1.163955E-01	8.872660E-02	9.656420E-02	-9.555740E-03
54.00	1.084339E-01	8.824034E-02	9.330809E-02	-8.890332E-03
56.00	1.011565E-01	7.240926E-02	9.319529E-02	-9.261733E-03
58.00	9.450215E-02	6.540969E-02	7.303294E-02	-7.650672E-03

SCATTERING ANGLE	I1	I2	I3	I4
60.00	8.961497E-02	5.906700E-02	6.645491E-02	-7.048652E-03
62.00	8.283868E-02	5.330990E-02	6.041411E-02	-6.428606E-03
64.00	7.773077E-02	4.808459E-02	5.487875E-02	-5.926217E-03
66.00	7.306127E-02	4.336019E-02	4.981993E-02	-5.251722E-03
68.00	6.880553E-02	3.910510E-02	4.519975E-02	-4.718846E-03
70.00	6.493115E-02	3.529140E-02	4.097027E-02	-4.230019E-03
72.00	6.138743E-02	3.188759E-02	3.708759E-02	-3.781035E-03
74.00	5.811490E-02	2.885612E-02	3.350768E-02	-3.359564E-03
76.00	5.505440E-02	2.615520E-02	3.019760E-02	-2.953120E-03
78.00	5.221412E-02	2.374161E-02	2.713287E-02	-2.552675E-03
80.00	4.956436E-02	2.157843E-02	2.429571E-02	-2.158171E-03
82.00	4.714098E-02	1.964127E-02	2.167569E-02	-1.776552E-03
84.00	4.493309E-02	1.792272E-02	1.925816E-02	-1.410866E-03
86.00	4.292338E-02	1.642401E-02	1.707896E-02	-1.091787E-03
88.00	4.107310E-02	1.514540E-02	1.496916E-02	-7.932651E-04
90.00	3.934342E-02	1.406597E-02	1.305742E-02	-5.139823E-04
92.00	3.770945E-02	1.315314E-02	1.127442E-02	-2.479253E-04
94.00	3.615347E-02	1.237258E-02	9.507191E-03	2.365434E-05
96.00	3.471979E-02	1.170343E-02	8.051553E-03	2.992335E-04
98.00	3.330934E-02	1.114484E-02	6.656640E-03	5.441877E-04
100.00	3.217911E-02	1.073709E-02	5.267453E-03	7.947510E-04
102.00	3.107385E-02	1.039634E-02	4.021936E-03	1.005540E-03
104.00	3.006729E-02	1.020794E-02	2.952647E-03	1.207979E-03
106.00	2.912019E-02	1.011968E-02	1.745822E-03	1.397339E-03
108.00	2.823333E-02	1.016939E-02	5.944359E-04	1.541925E-03
110.00	2.737331E-02	1.016137E-02	-2.962582E-04	1.756369E-03
112.00	2.657592E-02	1.027329E-02	-1.318647E-03	1.949196E-03
114.00	2.593579E-02	1.045237E-02	-2.071032E-03	2.126721E-03
116.00	2.515498E-02	1.070482E-02	-2.8614[illegible]E-03	2.293740E-03
118.00	2.453133E-02	1.102804E-02	-3.6366[illegible]E-03	2.450837E-03
120.00	2.395328E-02	1.141120E-02	-4.325[illegible]E-03	2.502512E-03
122.00	2.345005E-02	1.194242E-02	-5.025436E-03	2.750965E-03
124.00	2.299747E-02	1.231865E-02	-5.704130E-03	2.895272E-03
126.00	2.255930E-02	1.284780E-02	-6.351063E-03	3.031503E-03
128.00	2.219573E-02	1.343590E-02	-6.994440E-03	3.159776E-03
130.00	2.192691E-02	1.407838E-02	-7.576169E-03	3.274005E-03
132.00	2.149157E-02	1.476433E-02	-8.142709E-03	3.397306E-03
134.00	2.119434E-02	1.548127E-02	-8.689451E-03	3.502341E-03
136.00	2.091180E-02	1.622692E-02	-9.219551E-03	3.618679E-03
138.00	2.057340E-02	1.700812E-02	-9.735990E-03	3.733993E-03
140.00	2.049736E-02	1.783531E-02	-1.024296E-02	3.845471E-03
142.00	2.031177E-02	1.870751E-02	-1.074976E-02	3.949305E-03
144.00	2.020533E-02	1.961943E-02	-1.126792E-02	4.037911E-03
146.00	2.011483E-02	2.056597E-02	-1.180599E-02	4.109796E-03
148.00	2.006192E-02	2.153866E-02	-1.236615E-02	4.156295E-03
150.00	2.005313E-02	2.252800E-02	-1.294775E-02	4.172579E-03
152.00	2.007469E-02	2.352044E-02	-1.355106E-02	4.147694E-03
154.00	2.012417E-02	2.449279E-02	-1.419050E-02	4.052421E-03
156.00	2.019741E-02	2.541139E-02	-1.488765E-02	3.880529E-03
158.00	2.030423E-02	2.621402E-02	-1.564653E-02	3.590757E-03
160.00	2.043207E-02	2.683324E-02	-1.646419E-02	3.145412E-03
162.00	2.058721E-02	2.724131E-02	-1.735469E-02	2.537982E-03
164.00	2.081172E-02	2.740504E-02	-1.834375E-02	1.793212E-03
166.00	2.117991E-02	2.737998E-02	-1.944563E-02	9.303949E-04
168.00	2.175300E-02	2.730059E-02	-2.067533E-02	1.634396E-04
170.00	2.264412E-02	2.729553E-02	-2.206994E-02	-4.344323E-04
172.00	2.385374E-02	2.743005E-02	-2.364937E-02	-7.950272E-04
174.00	2.533059E-02	2.772034E-02	-2.535081E-02	-9.446703E-04
176.00	2.685097E-02	2.810928E-02	-2.699332E-02	-6.302912E-04
178.00	2.812955E-02	2.848673E-02	-2.823473E-02	-2.448617E-04
180.00	2.859224E-02	2.859224E-02	-2.859224E-02	-1.772163E-15

TABLE B7. NORMALIZED PHASE MATRIX FOR TYPE R AEROSOLS, $M=1.50-0.01i$, $R_1=0.01\mu M$, $\nu=4.5$, $\lambda=0.70\mu$

SCATTERING ANGLE	I1	I2	I3	I4
0.00	2.085572E+00	2.085572E+00	2.085572E+00	-1.392292E-15
.10	2.093293E+00	2.087299E+00	2.087285E+00	-4.229429E-05
.20	2.076438E+00	2.076480E+00	2.076469E+00	-1.1[illegible]387E-04
.30	2.065214E+00	2.065263E+00	2.065239E+00	-3.73[illegible]63E-04
.40	2.049747E+00	2.049832E+00	2.049789E+00	-6.5432[illegible]E-04
.50	2.033319E+00	2.030450E+00	2.030791E+00	-1.002106E-03
.60	2.007256E+00	2.007638E+00	2.007345E+00	-1.408349E-03
.70	1.980929E+00	1.981173E+00	1.981049E+00	-1.963006E-03
.80	1.951760E+00	1.952068E+00	1.951911E+00	-2.355246E-03
.90	1.9[illegible]193[illegible]E+00	1.920569E+00	1.920376E+00	-2.873876E-03
1.00	1.886688E+00	1.887634E+00	1.886904E+00	-3.407769E-03
1.10	1.851712E+00	1.852227E+00	1.851960E+00	-3.946260E-03
1.20	1.815722E+00	1.816305E+00	1.816000E+00	-4.479516E-03
1.30	1.779155E+00	1.779905E+00	1.779463E+00	-4.998834E-03
1.40	1.742424E+00	1.743137E+00	1.742758E+00	-5.456986E-03
1.50	1.705900E+00	1.706672E+00	1.705259E+00	-5.967875E-03
1.60	1.669915E+00	1.670741E+00	1.670294E+00	-6.407625E-03
1.70	1.634752E+00	1.635626E+00	1.635149E+00	-6.813573E-03
1.80	1.600665E+00	1.601561E+00	1.601055E+00	-7.184739E-03
1.90	1.567774E+00	1.568727E+00	1.568196E+00	-7.521430E-03
2.00	1.536273E+00	1.537257E+00	1.536703E+00	-7.825354E-03
3.00	1.299239E+00	1.299294E+00	1.298678E+00	-9.405017E-03
4.00	1.149334E+00	1.149983E+00	1.149299E+00	-1.139031E-02
5.00	1.039539E+00	1.040219E+00	1.039595E+00	-1.263614E-02
6.00	9.543772E-01	9.551430E-01	9.545459E-01	-1.373554E-02
7.00	8.853316E-01	8.853276E-01	8.947299E-01	-1.474112E-02
8.00	8.266108E-01	8.263194E-01	8.257139E-01	-1.568183E-02
9.00	7.756398E-01	7.749645E-01	7.747831E-01	-1.650920E-02
10.00	7.306367E-01	7.295103E-01	7.289902E-01	-1.720807E-02
11.00	6.902753E-01	6.885412E-01	6.881918E-01	-1.777904E-02
12.00	6.535877E-01	6.515074E-01	6.511171E-01	-1.825426E-02
13.00	6.193070E-01	6.174124E-01	6.170756E-01	-1.865950E-02
14.00	5.887347E-01	5.858590E-01	5.855945E-01	-1.900269E-02
15.00	5.598639E-01	5.564566E-01	5.562994E-01	-1.927633E-02
16.00	5.328723E-01	5.289360E-01	5.289234E-01	-1.947636E-02
17.00	5.073509E-01	5.030700E-01	5.032298E-01	-1.963703E-02
18.00	4.837439E-01	4.786826E-01	4.790345E-01	-1.968385E-02
19.00	4.612754E-01	4.556180E-01	4.561872E-01	-1.971767E-02
20.00	4.400621E-01	4.337523E-01	4.345682E-01	-1.971316E-02
22.00	4.013466E-01	3.932549E-01	3.946482E-01	-1.957156E-02
24.00	3.660223E-01	3.563316E-01	3.586620E-01	-1.926030E-02
26.00	3.344930E-01	3.234329E-01	3.261222E-01	-1.896649E-02
28.00	3.363747E-01	2.932944E-01	2.966569E-01	-1.837962E-02
30.00	2.404545E-01	2.659375E-01	2.699602E-01	-1.780510E-02
32.00	2.572771E-01	2.411838E-01	2.457442E-01	-1.717384E-02
34.00	7.369310E-01	2.185447E-01	2.237531E-01	-1.649131E-02
36.00	2.172914E-01	1.988467E-01	2.037596E-01	-1.574874E-02
38.00	2.008193E-01	1.794108E-01	1.955997E-01	-1.497089E-02
40.00	1.843297E-01	1.624456E-01	1.690274E-01	-1.410343E-02
42.00	1.703762E-01	1.470010E-01	1.539394E-01	-1.330881E-02
44.00	1.571537E-01	1.329681E-01	1.402126E-01	-1.250760E-02
46.00	1.454362E-01	1.202400E-01	1.277335E-01	-1.102942E-02
48.00	1.349286E-01	1.087117E-01	1.163099E-01	-1.140380E-02
50.00	1.252165E-01	9.827753E-02	1.060755E-01	-1.035006E-02
52.00	1.164692E-01	9.982897E-02	9.667805E-02	-9.636179E-03
54.00	1.084361E-01	8.025422E-02	8.800937E-02	-8.947112E-03
56.00	1.011939E-01	7.246249E-02	9.022293E-02	-8.277033E-03
58.00	9.[illegible]4778E-02	6.529385E-02	7.302640E-02	-7.626683E-03

SCATTERING ANGLE	I1	I2	I3	I4
60.00	9.945335E-02	5.900573E-02	5.665576E-02	-7.001614E-03
62.00	9.291650E-02	5.325132E-02	6.045799E-02	-6.407611E-03
64.00	7.784536E-02	4.807219E-02	5.497151E-02	-5.840839E-03
66.00	7.319491E-02	4.339876E-02	4.993716E-02	-5.297061E-03
68.00	5.992395E-02	3.917325E-02	4.530549E-02	-4.777711E-03
70.00	5.493036E-02	3.535827E-02	4.104070E-02	-4.294693E-03
72.00	5.179403E-02	3.193263E-02	3.711856E-02	-3.815267E-03
74.00	5.904796E-02	2.497443E-02	3.351920E-02	-3.366163E-03
76.00	5.505306E-02	2.615046E-02	3.021107E-02	-2.939512E-03
78.00	5.225910E-02	2.372142E-02	2.718215E-02	-2.535346E-03
80.00	4.969330E-02	2.155510E-02	2.434034E-02	-2.155393E-03
82.00	4.729737E-02	1.963245E-02	2.172620E-02	-1.793246E-03
84.00	4.503054E-02	1.794235E-02	1.930777E-02	-1.452560E-03
86.00	4.304337E-02	1.646951E-02	1.707171E-02	-1.125393E-03
88.00	4.114938E-02	1.519227E-02	1.500037E-02	-8.159187E-04
90.00	3.934451E-02	1.409613E-02	1.307599E-02	-5.200466E-04
92.00	3.774377E-02	1.313614E-02	1.128512E-02	-2.384573E-04
94.00	3.621754E-02	1.233711E-02	9.619309E-03	2.998629E-05
96.00	3.490332E-02	1.168267E-02	9.069577E-03	2.866117E-04
98.00	3.350647E-02	1.115830E-02	5.624809E-03	5.320346E-04
100.00	3.229504E-02	1.074607E-02	5.2[illegible]4796E-03	7.660658E-04
102.00	3.116750E-02	1.043742E-02	4.[illegible]192E-03	9.887108E-04
104.00	3.012091E-02	1.022998E-02	2.835517E-03	1.200936E-03
106.00	2.915299E-02	1.012078E-02	1.735061E-03	1.403128E-03
108.00	2.825375E-02	1.010097E-02	7.023435E-04	1.594705E-03
110.00	2.743204E-02	1.015961E-02	-2.733714E-04	1.774375E-03
112.00	2.665941E-02	1.028992E-02	-1.196433E-03	1.943984E-03
114.00	2.593558E-02	1.048893E-02	-2.067753E-03	2.107938E-03
116.00	2.526354E-02	1.075193E-02	-2.897579E-03	2.269113E-03
118.00	2.464332E-02	1.107320E-02	-3.660643E-03	2.426565E-03
120.00	2.407435E-02	1.145080E-02	-4.394593E-03	2.579496E-03
122.00	2.353713E-02	1.188404E-02	-5.095195E-03	2.725470E-03
124.00	2.303420E-02	1.236795E-02	-5.764055E-03	2.967996E-03
126.00	2.264339E-02	1.287693E-02	-6.400636E-03	3.004730E-03
128.00	2.224571E-02	1.347127E-02	-7.005550E-03	3.135393E-03
130.00	2.187335E-02	1.409380E-02	-7.581885E-03	3.262990E-03
132.00	2.153445E-02	1.476343E-02	-8.134949E-03	3.393994E-03
134.00	2.123334E-02	1.547596E-02	-8.672567E-03	3.514523E-03
136.00	2.095931E-02	1.622026E-02	-9.203539E-03	3.632293E-03
138.00	2.074078E-02	1.701902E-02	-9.733624E-03	3.741153E-03
140.00	2.054576E-02	1.784852E-02	-1.026347E-02	3.841254E-03
142.00	2.035503E-02	1.872004E-02	-1.079155E-02	3.933749E-03
144.00	2.025941E-02	1.963618E-02	-1.131679E-02	4.020013E-03
146.00	2.014879E-02	2.059314E-02	-1.184132E-02	4.098234E-03
148.00	2.011294E-02	2.157930E-02	-1.237194E-02	4.159842E-03
150.00	2.009735E-02	2.258036E-02	-1.292053E-02	4.186051E-03
152.00	2.008430E-02	2.357991E-02	-1.350268E-02	4.160258E-03
154.00	2.011057E-02	2.455585E-02	-1.413695E-02	4.059465E-03
156.00	2.015737E-02	2.547345E-02	-1.483561E-02	3.859309E-03
158.00	2.023770E-02	2.628997E-02	-1.560992E-02	3.541285E-03
160.00	2.035554E-02	2.696813E-02	-1.646596E-02	3.083216E-03
162.00	2.052350E-02	2.738962E-02	-1.741167E-02	2.470859E-03
164.00	2.079235E-02	2.757676E-02	-1.844828E-02	1.714288E-03
166.00	2.117798E-02	2.755436E-02	-1.957319E-02	8.938974E-04
168.00	2.183455E-02	2.745853E-02	-2.081019E-02	1.397167E-04
170.00	2.277538E-02	2.742856E-02	-2.220563E-02	-4.911756E-04
172.00	2.397394E-02	2.755494E-02	-2.378153E-02	-9.384096E-04
174.00	2.545398E-02	2.783916E-02	-2.548007E-02	-8.461474E-04
176.00	2.697639E-02	2.822728E-02	-2.711572E-02	-6.319545E-04
178.00	2.825927E-02	2.861683E-02	-2.836613E-02	-2.489592E-04
180.00	2.882942E-02	2.882942E-02	-2.882942E-02	-1.622498E-16

TABLE 38. NORMALIZED PHASE MATRIX FOR TYPE B AEROSOLS, M=1.50-0.01I, R_1=0.03μM, ν=4.5, λ=1.60μ

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.505984E+00	1.505984E+00	1.505984E+00	-1.016002E-15
.10	1.505564E+00	1.505565E+00	1.505563E+00	-1.265875E-05
.20	1.504543E+00	1.504550E+00	1.504547E+00	-5.095811E-05
.30	1.502847E+00	1.502862E+00	1.502854E+00	-1.134980E-04
.40	1.500480E+00	1.500507E+00	1.500493E+00	-2.011351E-04
.50	1.497458E+00	1.497492E+00	1.497471E+00	-3.129862E-04
.60	1.493769E+00	1.493828E+00	1.493798E+00	-4.484760E-04
.70	1.489447E+00	1.489528E+00	1.489487E+00	-6.048516E-04
.80	1.484501E+00	1.484685E+00	1.484593E+00	-7.972790E-04
.90	1.478966E+00	1.479077E+00	1.479018E+00	-9.800064E-04
1.00	1.472930E+00	1.472961E+00	1.472879E+00	-1.210774E-03
1.10	1.466085E+00	1.466277E+00	1.466179E+00	-1.458037E-03
1.20	1.458321E+00	1.459047E+00	1.458931E+00	-1.789362E-03
1.30	1.451033E+00	1.451294E+00	1.451160E+00	-1.983442E-03
1.40	1.442744E+00	1.443043E+00	1.442889E+00	-2.272907E-03
1.50	1.433981E+00	1.434319E+00	1.434144E+00	-2.575936E-03
1.60	1.424772E+00	1.425130E+00	1.424953E+00	-2.891065E-03
1.70	1.415164E+00	1.415363E+00	1.415344E+00	-3.216803E-03
1.80	1.405125E+00	1.405506E+00	1.405344E+00	-3.551639E-03
1.90	1.394746E+00	1.395258E+00	1.394984E+00	-3.894858E-03
2.00	1.384037E+00	1.384583E+00	1.384293E+00	-4.242549E-03
3.00	1.265366E+00	1.266311E+00	1.265767E+00	-7.753263E-03
4.00	1.144762E+00	1.145594E+00	1.144799E+00	-1.059710E-02
5.00	1.038929E+00	1.040187E+00	1.039222E+00	-1.243693E-02
6.00	9.530031E-01	9.540345E-01	9.530058E-01	-1.361333E-02
7.00	8.852036E-01	8.860259E-01	8.850410E-01	-1.450810E-02
8.00	8.273399E-01	8.279799E-01	8.269571E-01	-1.555181E-02
9.00	7.765378E-01	7.769151E-01	7.758603E-01	-1.644571E-02
10.00	7.312602E-01	7.312346E-01	7.301739E-01	-1.718586E-02
11.00	6.906287E-01	6.901828E-01	6.891557E-01	-1.778267E-02
12.00	6.539981E-01	6.529673E-01	6.528123E-01	-1.829001E-02
13.00	6.202635E-01	6.187833E-01	6.179333E-01	-1.873868E-02
14.00	5.891180E-01	5.870739E-01	5.867597E-01	-1.908681E-02
15.00	5.601892E-01	5.579241E-01	5.569010E-01	-1.935399E-02
16.00	5.332390E-01	5.290919E-01	5.295529E-01	-1.954914E-02
17.00	5.079266E-01	5.039279E-01	5.033224E-01	-1.968925E-02
18.00	4.841347E-01	4.794271E-01	4.795813E-01	-1.977980E-02
19.00	4.617140E-01	4.562629E-01	4.567317E-01	-1.980629E-02
20.00	4.405725E-01	4.343454E-01	4.350920E-01	-1.978702E-02
22.00	4.016872E-01	3.938537E-01	3.952492E-01	-1.963306E-02
24.00	3.667050E-01	3.572253E-01	3.592980E-01	-1.934451E-02
26.00	3.352120E-01	3.240476E-01	3.267863E-01	-1.892661E-02
28.00	3.067334E-01	2.939284E-01	2.973328E-01	-1.847481E-02
30.00	2.810835E-01	2.665468E-01	2.705086E-01	-1.784813E-02
32.00	2.579322E-01	2.416550E-01	2.463071E-01	-1.718479E-02
34.00	2.367778E-01	2.190170E-01	2.242434E-01	-1.648337E-02
36.00	2.175355E-01	1.984230E-01	2.041702E-01	-1.574917E-02
38.00	2.003706E-01	1.787221E-01	1.859409E-01	-1.499045E-02
40.00	1.845790E-01	1.627193E-01	1.693487E-01	-1.421574E-02
42.00	1.704279E-01	1.472747E-01	1.542574E-01	-1.342424E-02
44.00	1.575179E-01	1.322600E-01	1.404400E-01	-1.263361E-02
46.00	1.457305E-01	1.205317E-01	1.280487E-01	-1.185198E-02
48.00	1.351476E-01	1.089751E-01	1.166744E-01	-1.109417E-02
50.00	1.254734E-01	9.848346E-02	1.063113E-01	-1.034384E-02
52.00	1.165799E-01	8.897970E-02	9.645903E-02	-9.625394E-03
54.00	1.086634E-01	8.035520E-02	8.822981E-02	-8.933536E-03
56.00	1.013605E-01	7.257076E-02	8.036959E-02	-8.265113E-03
58.00	9.463355E-02	6.552066E-02	7.318054E-02	-7.615663E-03

SCATTERING ANGLE	I1	I2	I3	I4
60.00	8.861163E-02	5.914236E-02	6.660794E-02	-6.989417E-03
62.00	8.303945E-02	5.337237E-02	6.059150E-02	-6.387039E-03
64.00	7.799697E-02	4.815780E-02	5.598340E-02	-5.915195E-03
66.00	7.333468E-02	4.345215E-02	5.003815E-02	-5.276505E-03
68.00	6.905102E-02	3.921600E-02	4.539094E-02	-4.765577E-03
70.00	6.517736E-02	3.541004E-02	4.112727E-02	-4.279435E-03
72.00	6.152223E-02	3.199717E-02	3.720413E-02	-3.810734E-03
74.00	5.821178E-02	2.893763E-02	3.359579E-02	-3.358389E-03
76.00	5.516952E-02	2.619930E-02	3.027221E-02	-2.929556E-03
78.00	5.235881E-02	2.375410E-02	2.720802E-02	-2.525032E-03
80.00	4.977642E-02	2.158108E-02	2.437919E-02	-2.147374E-03
82.00	4.737559E-02	1.966157E-02	2.175209E-02	-1.790246E-03
84.00	4.515754E-02	1.797514E-02	1.934090E-02	-1.449160E-03
86.00	4.310762E-02	1.650120E-02	1.709626E-02	-1.119403E-03
88.00	4.121450E-02	1.521753E-02	1.501695E-02	-8.041041E-04
90.00	3.946250E-02	1.410661E-02	1.300880E-02	-5.060194E-04
92.00	3.783445E-02	1.315624E-02	1.129731E-02	-2.283181E-04
94.00	3.631071E-02	1.235752E-02	9.635507E-03	3.432616E-05
96.00	3.490437E-02	1.170127E-02	9.077005E-03	2.851671E-04
98.00	3.360100E-02	1.117523E-02	6.627315E-03	5.280512E-04
100.00	3.239171E-02	1.076577E-02	5.274269E-03	7.627065E-04
102.00	3.127114E-02	1.046009E-02	4.013203E-03	9.862352E-04
104.00	3.022956E-02	1.025251E-02	2.828963E-03	1.197504E-03
106.00	2.925934E-02	1.013805E-02	1.723002E-03	1.397209E-03
108.00	2.835790E-02	1.011259E-02	6.850544E-04	1.587901E-03
110.00	2.751016E-02	1.016039E-02	-2.907239E-04	1.772133E-03
112.00	2.673006E-02	1.029817E-02	-1.210370E-03	1.949523E-03
114.00	2.601646E-02	1.049659E-02	-2.078989E-03	2.119925E-03
116.00	2.534609E-02	1.075923E-02	-2.899425E-03	2.283795E-03
118.00	2.472591E-02	1.108329E-02	-3.675579E-03	2.442349E-03
120.00	2.415492E-02	1.146499E-02	-4.411613E-03	2.591077E-03
122.00	2.352969E-02	1.189832E-02	-5.109994E-03	2.747525E-03
124.00	2.314665E-02	1.238230E-02	-5.774499E-03	2.891742E-03
126.00	2.270279E-02	1.291567E-02	-6.409974E-03	3.029075E-03
128.00	2.229511E-02	1.349826E-02	-7.019136E-03	3.160575E-03
130.00	2.192247E-02	1.412810E-02	-7.604793E-03	3.288162E-03
132.00	2.159712E-02	1.480278E-02	-8.171296E-03	3.413736E-03
134.00	2.129037E-02	1.551925E-02	-8.722253E-03	3.537342E-03
136.00	2.103242E-02	1.627600E-02	-9.260177E-03	3.656872E-03
138.00	2.080922E-02	1.707348E-02	-9.788393E-03	3.769909E-03
140.00	2.061974E-02	1.791409E-02	-1.031081E-02	3.975037E-03
142.00	2.046341E-02	1.879491E-02	-1.083040E-02	3.970531E-03
144.00	2.033978E-02	1.971199E-02	-1.135045E-02	4.052952E-03
146.00	2.024951E-02	2.066177E-02	-1.187700E-02	4.117275E-03
148.00	2.019030E-02	2.164043E-02	-1.241704E-02	4.158976E-03
150.00	2.016530E-02	2.263996E-02	-1.298031E-02	4.171910E-03
152.00	2.017276E-02	2.364251E-02	-1.357796E-02	4.143864E-03
154.00	2.021174E-02	2.462229E-02	-1.422023E-02	4.356111E-03
156.00	2.027403E-02	2.554178E-02	-1.491805E-02	3.915730E-03
158.00	2.035479E-02	2.635090E-02	-1.568094E-02	3.589591E-03
160.00	2.048434E-02	2.699422E-02	-1.652027E-02	3.153265E-03
162.00	2.063936E-02	2.741504E-02	-1.744735E-02	2.551965E-03
164.00	2.087352E-02	2.759127E-02	-1.846771E-02	1.830323E-03
166.00	2.123136E-02	2.757160E-02	-1.953215E-02	9.623317E-04
168.00	2.185934E-02	2.749410E-02	-2.083754E-02	1.039572E-04
170.00	2.279865E-02	2.749730E-02	-2.226113E-02	-4.399799E-04
172.00	2.405621E-02	2.766444E-02	-2.384130E-02	-7.350661E-04
174.00	2.554432E-02	2.799997E-02	-2.562444E-02	-9.335933E-04
176.00	2.711764E-02	2.429459E-02	-2.737995E-02	-6.359119E-04
178.00	2.845535E-02	2.881634E-02	-2.859436E-02	-2.395343E-04
180.00	2.904438E-02	2.904438E-02	-2.934439E-02	-1.717241E-16

TABLE 39. NORMALIZED PHASE MATRIX FOR TYPE 3 AEROSOLS, M=1.50-0.01I, R_1=0.04μM, ν=4.5, λ=0.30μ

SCATTERING ANGLE	I1	I2	I3	I4
0.00	[illegible]	[illegible]	[illegible]	[illegible]
.10	[illegible]	[illegible]	[illegible]	[illegible]
.20	[illegible]	[illegible]	[illegible]	[illegible]
.30	[illegible]	[illegible]	[illegible]	[illegible]
.40	[illegible]	[illegible]	[illegible]	[illegible]
.50	[illegible]	[illegible]	[illegible]	[illegible]
.60	[illegible]	[illegible]	[illegible]	[illegible]
.70	[illegible]	[illegible]	[illegible]	[illegible]
.80	[illegible]	[illegible]	[illegible]	[illegible]
.90	[illegible]	[illegible]	[illegible]	[illegible]
1.00	[illegible]	[illegible]	[illegible]	[illegible]
1.10	[illegible]	[illegible]	[illegible]	[illegible]
1.20	[illegible]	[illegible]	[illegible]	[illegible]
1.30	[illegible]	[illegible]	[illegible]	[illegible]
1.40	[illegible]	[illegible]	[illegible]	[illegible]
1.50	[illegible]	[illegible]	[illegible]	[illegible]
1.60	[illegible]	[illegible]	[illegible]	[illegible]
1.70	[illegible]	[illegible]	[illegible]	[illegible]
1.80	[illegible]	[illegible]	[illegible]	[illegible]
1.90	[illegible]	[illegible]	[illegible]	[illegible]
2.00	[illegible]	[illegible]	[illegible]	[illegible]
3.00	[illegible]	[illegible]	[illegible]	[illegible]
4.00	[illegible]	[illegible]	[illegible]	[illegible]
5.00	[illegible]	[illegible]	[illegible]	[illegible]
6.00	[illegible]	[illegible]	[illegible]	[illegible]
7.00	[illegible]	[illegible]	[illegible]	[illegible]
8.00	[illegible]	[illegible]	[illegible]	[illegible]
9.00	[illegible]	[illegible]	[illegible]	[illegible]
10.00	[illegible]	[illegible]	[illegible]	[illegible]
11.00	[illegible]	[illegible]	[illegible]	[illegible]
12.00	7.1194257E-01	[illegible]	7.7729645E-01	[illegible]
13.00	[illegible]	[illegible]	[illegible]	[illegible]
14.00	[illegible]	6.6167977E-01	[illegible]	[illegible]
15.00	[illegible]	[illegible]	6.2565917E-01	[illegible]
16.00	[illegible]	[illegible]	[illegible]	[illegible]
17.00	[illegible]	[illegible]	[illegible]	[illegible]
18.00	[illegible]	[illegible]	[illegible]	[illegible]
19.00	[illegible]	[illegible]	[illegible]	[illegible]
20.00	[illegible]	[illegible]	[illegible]	[illegible]
22.00	[illegible]	[illegible]	[illegible]	[illegible]
24.00	[illegible]	[illegible]	[illegible]	[illegible]
26.00	[illegible]	[illegible]	[illegible]	[illegible]
28.00	[illegible]	[illegible]	[illegible]	[illegible]
30.00	[illegible]	[illegible]	[illegible]	[illegible]
32.00	[illegible]	2.6767973E-01	[illegible]	[illegible]
34.00	[illegible]	[illegible]	[illegible]	[illegible]
36.00	2.2716125E-01	2.1191677E-01	2.1532177E-01	[illegible]
38.00	[illegible]	1.8791690E-01	[illegible]	[illegible]
40.00	[illegible]	1.7707367E-01	1.7407607E-01	[illegible]
42.00	[illegible]	1.5407957E-01	1.5911091E-01	[illegible]
44.00	[illegible]	1.4141965E-01	1.4549491E-01	[illegible]
46.00	1.4473193E-01	1.2741577E-01	[illegible]	[illegible]
48.00	1.3297175E-01	1.1704725E-01	1.1554125E-01	[illegible]
50.00	1.2773090E-01	[illegible]	[illegible]	[illegible]
52.00	1.1097246E-01	9.7590572E-02	9.6742255E-02	[illegible]
54.00	1.0159977E-01	[illegible]	[illegible]	[illegible]
56.00	9.9274975E-02	7.6761395E-02	7.7973552E-02	[illegible]
58.00	[illegible]	[illegible]	7.1507592E-02	[illegible]

SCATTERING ANGLE	I1	I2	I3	I4
60.00	7.9459415E-02	[illegible]	[illegible]	[illegible]
62.00	7.1711120E-02	[illegible]	[illegible]	[illegible]
64.00	6.7155793E-02	5.0712925E-02	[illegible]	[illegible]
66.00	[illegible]	4.5177156E-02	[illegible]	[illegible]
68.00	5.7666720E-02	4.1467345E-02	[illegible]	[illegible]
70.00	[illegible]	[illegible]	[illegible]	[illegible]
72.00	4.9117327E-02	[illegible]	[illegible]	[illegible]
74.00	[illegible]	[illegible]	[illegible]	[illegible]
76.00	4.2172955E-02	2.9322505E-02	[illegible]	[illegible]
78.00	[illegible]	2.6454756E-02	[illegible]	[illegible]
80.00	3.6330775E-02	2.4279795E-02	[illegible]	[illegible]
82.00	3.3992697E-02	2.2716795E-02	[illegible]	[illegible]
84.00	3.1595156E-02	2.0550025E-02	[illegible]	[illegible]
86.00	[illegible]	[illegible]	[illegible]	[illegible]
88.00	2.7759105E-02	1.7577741E-02	[illegible]	[illegible]
90.00	[illegible]	1.6494941E-02	[illegible]	[illegible]
92.00	2.4718256E-02	1.5463795E-02	[illegible]	[illegible]
94.00	2.2751721E-02	1.4724093E-02	[illegible]	[illegible]
96.00	[illegible]	1.3724697E-02	[illegible]	[illegible]
98.00	[illegible]	[illegible]	[illegible]	[illegible]
100.00	1.9969566E-02	1.2122405E-02	[illegible]	[illegible]
102.00	[illegible]	[illegible]	[illegible]	[illegible]
104.00	1.5722593E-02	[illegible]	[illegible]	[illegible]
106.00	[illegible]	[illegible]	[illegible]	[illegible]
108.00	1.5312177E-02	1.0579938E-02	[illegible]	[illegible]
110.00	1.6376462E-02	[illegible]	[illegible]	[illegible]
112.00	1.3959935E-02	1.0772235E-02	[illegible]	[illegible]
114.00	1.3711170E-02	[illegible]	[illegible]	[illegible]
116.00	1.2615135E-02	[illegible]	[illegible]	[illegible]
118.00	1.2164746E-02	[illegible]	[illegible]	[illegible]
120.00	1.1376935E-02	[illegible]	[illegible]	[illegible]
122.00	[illegible]	[illegible]	[illegible]	[illegible]
124.00	1.0765125E-02	[illegible]	[illegible]	[illegible]
126.00	[illegible]	[illegible]	[illegible]	[illegible]
128.00	1.0111497E-02	1.0445275E-02	[illegible]	[illegible]
130.00	[illegible]	[illegible]	[illegible]	[illegible]
132.00	9.6731474E-03	1.1109377E-02	[illegible]	[illegible]
134.00	9.8117242E-03	[illegible]	[illegible]	[illegible]
136.00	9.3919585E-03	[illegible]	[illegible]	[illegible]
138.00	[illegible]	[illegible]	[illegible]	[illegible]
140.00	9.1197075E-03	1.2764275E-02	[illegible]	[illegible]
142.00	[illegible]	1.3721627E-02	[illegible]	[illegible]
144.00	9.1179756E-03	1.3797775E-02	[illegible]	[illegible]
146.00	[illegible]	1.4599772E-02	[illegible]	[illegible]
148.00	[illegible]	1.5290725E-02	[illegible]	[illegible]
150.00	9.1917115E-03	1.6395735E-02	[illegible]	[illegible]
152.00	9.2564986E-03	1.6944565E-02	[illegible]	[illegible]
154.00	9.3907956E-03	1.7515956E-02	[illegible]	[illegible]
156.00	9.5677376E-03	[illegible]	[illegible]	[illegible]
158.00	9.7647665E-03	[illegible]	[illegible]	[illegible]
160.00	9.9609372E-03	1.9423715E-02	[illegible]	[illegible]
162.00	1.0277796E-02	1.9687795E-02	-7.2779578E-03	[illegible]
164.00	1.0571595E-02	1.9575765E-02	-8.3653235E-03	[illegible]
166.00	1.1355676E-02	1.9665495E-02	-9.6777757E-03	[illegible]
168.00	1.1919566E-02	1.9166669E-02	-1.1162235E-02	[illegible]
170.00	1.2966795E-02	1.9417799E-02	-1.2599707E-02	[illegible]
172.00	1.4495699E-02	1.9188660E-02	-1.4552056E-02	[illegible]
174.00	1.6519932E-02	1.9791975E-02	-1.6575672E-02	[illegible]
176.00	1.8914782E-02	1.9797388E-02	-1.9661795E-02	[illegible]
178.00	[illegible]	2.0701975E-02	[illegible]	[illegible]
180.00	2.0631277E-02	2.0631277E-02	-2.0631277E-02	[illegible]

TABLE III. NORMALIZED PHASE MATRIX FOR TYPE 3 AEROSOLS, N=1.50-0.01I, R_3=0.04μM, ν=4.5, λ=0.48μ

SCATTERING ANGLE	11	12	13	14
0.00	2.6463995E+00	2.6463995E+00	2.6463995E+00	-2.2935615E-15
.10	2.6376657E+00	2.6376657E+00	2.6376661E+00	[illegible]
.20	2.6154937E+00	2.6154963E+00	2.6154949E+00	[illegible]
.30	2.5997979E+00	2.5997977E+00	2.5997006E+00	[illegible]
.40	2.5783280E+00	2.5783788E+00	2.5783756E+00	-1.2271323E-03
.50	2.5462799E+00	2.5464006E+00	2.5464037E+00	-1.0217935E-03
.60	[illegible]	2.4223324E+00	2.4229112E+00	-2.6752555E-03
.70	[illegible]	[illegible]	[illegible]	[illegible]
.80	[illegible]	[illegible]	[illegible]	[illegible]
.90	[illegible]	[illegible]	[illegible]	[illegible]
1.00	[illegible]	[illegible]	[illegible]	[illegible]
1.10	[illegible]	[illegible]	[illegible]	[illegible]
1.20	[illegible]	[illegible]	[illegible]	[illegible]
1.30	[illegible]	[illegible]	[illegible]	[illegible]
1.40	[illegible]	[illegible]	[illegible]	[illegible]
1.50	[illegible]	[illegible]	[illegible]	[illegible]
1.60	[illegible]	[illegible]	[illegible]	[illegible]
1.70	[illegible]	[illegible]	[illegible]	[illegible]
1.80	[illegible]	[illegible]	[illegible]	[illegible]
1.90	[illegible]	[illegible]	[illegible]	[illegible]
2.00	[illegible]	[illegible]	[illegible]	[illegible]
3.00	[illegible]	[illegible]	[illegible]	[illegible]
4.00	[illegible]	[illegible]	[illegible]	[illegible]
5.00	[illegible]	[illegible]	[illegible]	[illegible]
6.00	[illegible]	[illegible]	[illegible]	[illegible]
7.00	[illegible]	[illegible]	[illegible]	[illegible]
8.00	[illegible]	[illegible]	[illegible]	[illegible]
9.00	[illegible]	[illegible]	[illegible]	[illegible]
10.00	[illegible]	[illegible]	[illegible]	[illegible]
11.00	[illegible]	[illegible]	[illegible]	[illegible]
12.00	[illegible]	[illegible]	[illegible]	[illegible]
13.00	[illegible]	[illegible]	[illegible]	[illegible]
14.00	[illegible]	[illegible]	[illegible]	[illegible]
15.00	[illegible]	[illegible]	[illegible]	[illegible]
16.00	[illegible]	[illegible]	[illegible]	[illegible]
17.00	[illegible]	[illegible]	[illegible]	[illegible]
18.00	[illegible]	[illegible]	[illegible]	[illegible]
19.00	[illegible]	[illegible]	[illegible]	[illegible]
20.00	[illegible]	[illegible]	[illegible]	[illegible]
22.00	[illegible]	[illegible]	[illegible]	[illegible]
24.00	[illegible]	[illegible]	[illegible]	[illegible]
26.00	[illegible]	[illegible]	[illegible]	[illegible]
28.00	[illegible]	[illegible]	[illegible]	[illegible]
30.00	[illegible]	[illegible]	[illegible]	[illegible]
32.00	[illegible]	[illegible]	[illegible]	[illegible]
34.00	[illegible]	[illegible]	[illegible]	[illegible]
36.00	[illegible]	[illegible]	[illegible]	[illegible]
38.00	[illegible]	[illegible]	[illegible]	[illegible]
40.00	[illegible]	[illegible]	[illegible]	[illegible]
42.00	[illegible]	[illegible]	[illegible]	[illegible]
44.00	[illegible]	[illegible]	[illegible]	[illegible]
46.00	[illegible]	[illegible]	[illegible]	[illegible]
48.00	[illegible]	[illegible]	[illegible]	[illegible]
50.00	[illegible]	[illegible]	[illegible]	[illegible]
52.00	[illegible]	[illegible]	[illegible]	[illegible]
54.00	[illegible]	[illegible]	[illegible]	[illegible]
56.00	[illegible]	[illegible]	[illegible]	[illegible]
58.00	[illegible]	[illegible]	[illegible]	[illegible]

SCATTERING ANGLE	11	12	13	14
60.00	8.5759708E-02	6.0673295E-02	6.5377122E-02	-7.2667932E-03
62.00	7.9959990E-02	5.6577708E-02	[illegible]	[illegible]
64.00	7.4632328E-02	4.9331151E-02	5.6777275E-02	[illegible]
66.00	[illegible]	4.4557590E-02	[illegible]	[illegible]
68.00	6.5217282E-02	4.0633932E-02	4.5329135E-02	[illegible]
70.00	[illegible]	3.6555604E-02	[illegible]	[illegible]
72.00	5.7289688E-02	3.3197366E-02	3.6143683F-02	[illegible]
74.00	[illegible]	2.9971462E-02	[illegible]	[illegible]
76.00	5.0645996E-02	2.7192328E-02	3.0373135E-02	[illegible]
78.00	[illegible]	[illegible]	[illegible]	[illegible]
80.00	4.5324365E-02	2.2399718E-02	2.4709355E-02	[illegible]
82.00	[illegible]	[illegible]	[illegible]	[illegible]
84.00	4.0239314E-02	1.8379562E-02	[illegible]	[illegible]
86.00	[illegible]	1.7662772E-02	[illegible]	[illegible]
88.00	[illegible]	[illegible]	[illegible]	[illegible]
90.00	[illegible]	1.6915925E-02	[illegible]	[illegible]
92.00	3.2650315E-02	1.3317215E-02	[illegible]	[illegible]
94.00	[illegible]	[illegible]	[illegible]	[illegible]
96.00	2.9656495E-02	1.2367982E-02	[illegible]	[illegible]
98.00	[illegible]	[illegible]	[illegible]	[illegible]
100.00	2.7128035E-02	1.1245508E-02	[illegible]	[illegible]
102.00	[illegible]	[illegible]	[illegible]	[illegible]
104.00	2.4716965E-02	1.0501337E-02	[illegible]	[illegible]
106.00	[illegible]	[illegible]	[illegible]	[illegible]
108.00	[illegible]	1.0142408E-02	2.7571771E-03	[illegible]
110.00	[illegible]	[illegible]	[illegible]	[illegible]
112.00	2.1347692E-02	1.0342598E-02	[illegible]	[illegible]
114.00	[illegible]	[illegible]	[illegible]	[illegible]
116.00	[illegible]	1.0154215E-02	[illegible]	[illegible]
118.00	[illegible]	[illegible]	[illegible]	[illegible]
120.00	[illegible]	1.0796638E-02	[illegible]	[illegible]
122.00	[illegible]	[illegible]	[illegible]	[illegible]
124.00	1.7932538E-02	1.1165372E-02	[illegible]	[illegible]
126.00	[illegible]	[illegible]	[illegible]	[illegible]
128.00	[illegible]	1.2997926E-02	[illegible]	[illegible]
130.00	[illegible]	[illegible]	[illegible]	[illegible]
132.00	[illegible]	1.2912625E-02	[illegible]	[illegible]
134.00	[illegible]	[illegible]	[illegible]	[illegible]
136.00	[illegible]	1.3717732E-02	[illegible]	[illegible]
138.00	[illegible]	[illegible]	[illegible]	[illegible]
140.00	[illegible]	1.5322495E-02	[illegible]	[illegible]
142.00	[illegible]	[illegible]	[illegible]	[illegible]
144.00	1.5130508E-02	1.6731324E-02	[illegible]	[illegible]
146.00	[illegible]	[illegible]	[illegible]	[illegible]
148.00	1.5347998E-02	1.8395672E-02	[illegible]	[illegible]
150.00	[illegible]	[illegible]	[illegible]	[illegible]
152.00	[illegible]	2.0127795E-02	[illegible]	[illegible]
154.00	[illegible]	[illegible]	[illegible]	[illegible]
156.00	[illegible]	2.1103275E-02	[illegible]	[illegible]
158.00	[illegible]	[illegible]	[illegible]	[illegible]
160.00	[illegible]	2.3336032E-02	[illegible]	[illegible]
162.00	[illegible]	[illegible]	[illegible]	[illegible]
164.00	[illegible]	[illegible]	[illegible]	[illegible]
166.00	[illegible]	[illegible]	[illegible]	[illegible]
168.00	[illegible]	[illegible]	[illegible]	[illegible]
170.00	[illegible]	[illegible]	[illegible]	[illegible]
172.00	[illegible]	[illegible]	[illegible]	[illegible]
174.00	[illegible]	[illegible]	[illegible]	[illegible]
176.00	[illegible]	[illegible]	[illegible]	[illegible]
178.00	[illegible]	[illegible]	[illegible]	[illegible]
180.00	[illegible]	[illegible]	[illegible]	[illegible]

TABLE III. NORMALIZED PHASE MATRIX FOR TYPE 3 AEROSOLS, $N=1.50-0.05i$, $R_3=0.06\mu$, $\nu=4.5$, $\lambda=0.70\mu$

SCATTERING ANGLE	I1	I2	I3	I4
0.00	2.1253[illegible]E+00	2.1253[illegible]E+00	2.1253[illegible]E+00	+1.[illegible]E-15
.10	2.1234[illegible]E+00	2.1234[illegible]E+00	2.1234[illegible]E+00	-4.2145[illegible]E-05
.20	2.1184[illegible]E+00	2.1184[illegible]E+00	2.1184[illegible]E+00	+1.6[illegible]E-04
.30	2.1049[illegible]E+00	2.1049[illegible]E+00	2.1049[illegible]E+00	-3.7[illegible]E-04
.40	2.0809[illegible]E+00	2.0809[illegible]E+00	2.0809[illegible]E+00	+6.6[illegible]E-04
.50	2.0494[illegible]E+00	2.0494[illegible]E+00	2.0494[illegible]E+00	-9.9[illegible]E-04
.60	2.0[illegible]E+00	2.0[illegible]E+00	2.0[illegible]E+00	+1.[illegible]E-03
.70	2.0[illegible]E+00	2.0[illegible]E+00	2.0[illegible]E+00	-1.[illegible]E-03
.80	1.9[illegible]E+00	1.9[illegible]E+00	1.9[illegible]E+00	+2.[illegible]E-03
.90	1.9[illegible]E+00	1.9[illegible]E+00	1.9[illegible]E+00	-2.[illegible]E-03
1.00	1.8[illegible]E+00	1.8[illegible]E+00	1.8[illegible]E+00	+3.[illegible]E-03
1.10	1.8[illegible]E+00	1.8[illegible]E+00	1.8[illegible]E+00	-4.[illegible]E-03
1.20	1.8[illegible]E+00	1.8[illegible]E+00	1.8[illegible]E+00	+4.[illegible]E-03
1.30	1.81377[illegible]E+00	1.81377[illegible]E+00	1.81352[illegible]E+00	-4.9407[illegible]E-03
1.40	1.7[illegible]E+00	1.7[illegible]E+00	1.7[illegible]E+00	+5.4[illegible]E-03
1.50	1.7386[illegible]E+00	1.7[illegible]E+00	1.7[illegible]E+00	-5.8966[illegible]E-03
1.60	1.7[illegible]E+00	1.7[illegible]E+00	1.7[illegible]E+00	+6.3[illegible]E-03
1.70	1.6[illegible]E+00	1.6[illegible]E+00	1.6[illegible]E+00	-6.7[illegible]E-03
1.80	1.6[illegible]E+00	1.6[illegible]E+00	1.6[illegible]E+00	+7.[illegible]E-03
1.90	1.[illegible]E+00	1.[illegible]E+00	1.[illegible]E+00	-7.[illegible]E-03
2.00	1.[illegible]E+00	1.[illegible]E+00	1.[illegible]E+00	+7.[illegible]E-03
3.00	1.3[illegible]E+00	1.3[illegible]E+00	1.3[illegible]E+00	-9.[illegible]E-03
4.00	1.[illegible]E+00	1.[illegible]E+00	1.[illegible]E+00	+1.[illegible]E-02
5.00	1.[illegible]E+00	1.[illegible]E+00	1.[illegible]E+00	-1.[illegible]E-02
6.00	9.[illegible]E-01	9.[illegible]E-01	9.[illegible]E-01	+1.[illegible]E-02
7.00	9.[illegible]E-01	9.[illegible]E-01	9.[illegible]E-01	-1.[illegible]E-02
8.00	8.[illegible]E-01	8.[illegible]E-01	8.[illegible]E-01	+1.[illegible]E-02
9.00	7.[illegible]E-01	7.[illegible]E-01	7.[illegible]E-01	-1.[illegible]E-02
10.00	7.[illegible]E-01	7.[illegible]E-01	7.[illegible]E-01	+1.[illegible]E-02
11.00	7.[illegible]E-01	7.[illegible]E-01	6.[illegible]E-01	-1.[illegible]E-02
12.00	6.[illegible]E-01	6.[illegible]E-01	6.[illegible]E-01	+1.[illegible]E-02
13.00	6.[illegible]E-01	6.[illegible]E-01	6.[illegible]E-01	-1.[illegible]E-02
14.00	5.[illegible]E-01	5.[illegible]E-01	5.[illegible]E-01	+1.[illegible]E-02
15.00	5.[illegible]E-01	5.[illegible]E-01	5.[illegible]E-01	-1.[illegible]E-02
16.00	5.[illegible]E-01	5.[illegible]E-01	5.[illegible]E-01	+1.[illegible]E-02
17.00	5.[illegible]E-01	5.[illegible]E-01	5.[illegible]E-01	-1.[illegible]E-02
18.00	4.[illegible]E-01	4.[illegible]E-01	4.[illegible]E-01	+1.[illegible]E-02
19.00	4.[illegible]E-01	4.[illegible]E-01	4.[illegible]E-01	-9.[illegible]E-02
20.00	4.[illegible]E-01	4.[illegible]E-01	4.[illegible]E-01	+2.[illegible]E-02
22.00	4.[illegible]E-01	3.[illegible]E-01	4.[illegible]E-01	-1.[illegible]E-02
24.00	3.[illegible]E-01	3.[illegible]E-01	3.[illegible]E-01	+1.[illegible]E-02
26.00	3.[illegible]E-01	3.[illegible]E-01	3.[illegible]E-01	-1.[illegible]E-02
28.00	3.[illegible]E-01	3.[illegible]E-01	3.[illegible]E-01	+1.[illegible]E-02
30.00	2.[illegible]E-01	2.[illegible]E-01	2.[illegible]E-01	-1.[illegible]E-02
32.00	2.[illegible]E-01	2.[illegible]E-01	2.[illegible]E-01	+1.[illegible]E-02
34.00	2.[illegible]E-01	2.[illegible]E-01	2.[illegible]E-01	-1.[illegible]E-02
36.00	2.[illegible]E-01	2.[illegible]E-01	2.[illegible]E-01	+1.[illegible]E-02
38.00	2.[illegible]E-01	1.[illegible]E-01	1.[illegible]E-01	-1.[illegible]E-02
40.00	1.[illegible]E-01	1.[illegible]E-01	1.[illegible]E-01	+1.[illegible]E-02
42.00	1.[illegible]E-01	1.[illegible]E-01	1.[illegible]E-01	-1.[illegible]E-02
44.00	1.[illegible]E-01	1.[illegible]E-01	1.[illegible]E-01	+1.[illegible]E-02
46.00	1.[illegible]E-01	1.[illegible]E-01	1.[illegible]E-01	-1.[illegible]E-02
48.00	1.[illegible]E-01	1.[illegible]E-01	1.[illegible]E-01	+1.[illegible]E-02
50.00	1.[illegible]E-01	9.[illegible]E-02	1.[illegible]E-01	-1.[illegible]E-02
52.00	1.[illegible]E-01	8.[illegible]E-02	9.[illegible]E-02	-9.[illegible]E-03
54.00	1.[illegible]E-01	8.[illegible]E-02	8.[illegible]E-02	-9.[illegible]E-03
56.00	1.[illegible]E-01	7.[illegible]E-02	8.[illegible]E-02	-8.[illegible]E-03
58.00	9.[illegible]E-02	6.[illegible]E-02	7.[illegible]E-02	-7.[illegible]E-03

SCATTERING ANGLE	I1	I2	I3	I4
60.00	8.[illegible]E-02	5.[illegible]E-02	6.[illegible]E-02	+7.[illegible]E-03
62.00	8.[illegible]E-02	5.[illegible]E-02	6.[illegible]E-02	+6.[illegible]E-03
64.00	7.[illegible]E-02	4.[illegible]E-02	5.[illegible]E-02	+5.[illegible]E-03
66.00	7.[illegible]E-02	4.[illegible]E-02	4.[illegible]E-02	+4.[illegible]E-03
68.00	6.[illegible]E-02	3.[illegible]E-02	4.[illegible]E-02	+4.[illegible]E-03
70.00	6.[illegible]E-02	3.[illegible]E-02	4.[illegible]E-02	+3.[illegible]E-03
72.00	6.[illegible]E-02	3.[illegible]E-02	3.[illegible]E-02	+3.[illegible]E-03
74.00	5.[illegible]E-02	2.[illegible]E-02	3.[illegible]E-02	+3.[illegible]E-03
76.00	5.[illegible]E-02	2.[illegible]E-02	3.[illegible]E-02	+3.[illegible]E-03
78.00	5.[illegible]E-02	2.[illegible]E-02	2.[illegible]E-02	+2.[illegible]E-03
80.00	4.[illegible]E-02	2.[illegible]E-02	2.[illegible]E-02	+2.[illegible]E-03
82.00	4.[illegible]E-02	1.[illegible]E-02	2.[illegible]E-02	+1.[illegible]E-03
84.00	4.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	+1.[illegible]E-03
86.00	4.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	+1.[illegible]E-03
88.00	3.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	+5.[illegible]E-04
90.00	3.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	+1.[illegible]E-04
92.00	3.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	-3.[illegible]E-04
94.00	3.[illegible]E-02	1.[illegible]E-02	9.[illegible]E-03	-6.[illegible]E-04
96.00	3.[illegible]E-02	1.[illegible]E-02	9.[illegible]E-03	-7.[illegible]E-04
98.00	3.[illegible]E-02	1.[illegible]E-02	9.[illegible]E-03	-8.[illegible]E-04
100.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-9.[illegible]E-04
102.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
104.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
106.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
108.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
110.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
112.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
114.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
116.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
118.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
120.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
122.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
124.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
126.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
128.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
130.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
132.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
134.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
136.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
138.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
140.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
142.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
144.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
146.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
148.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
150.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
152.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
154.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
156.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
158.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
160.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
162.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
164.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
166.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
168.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
170.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
172.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
174.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
176.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
178.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03
180.00	2.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	-1.[illegible]E-03

TABLE 3B2. NORMALIZED PHASE MATRIX FOR TYPE 3 AEROSOLS, N=1.50-0.01I, R_3=0.04μM, ν=4.5, λ=1.60μ

SCATTERING ANGLE	I1	I2	I3	I4
0.00	[illegible]	[illegible]	[illegible]	[illegible]
.10	1.510050E+00	1.510050E+00	1.510057E+00	-1.262976E-05
.20	[illegible]	[illegible]	[illegible]	[illegible]
.30	1.507329E+00	1.507347E+00	1.507339E+00	-1.132551E-04
.40	[illegible]	[illegible]	[illegible]	[illegible]
.50	1.501911E+00	1.501960E+00	1.501935E+00	-3.123209E-04
.60	[illegible]	[illegible]	[illegible]	[illegible]
.70	1.493107E+00	1.493572E+00	1.493924E+00	-6.055714E-04
.80	[illegible]	[illegible]	[illegible]	[illegible]
.90	1.483333E+00	1.483609E+00	1.483610E+00	-9.846764E-04
1.00	[illegible]	[illegible]	[illegible]	[illegible]
1.10	1.470421E+00	1.470649E+00	1.470533E+00	-1.447591E-03
1.20	[illegible]	[illegible]	[illegible]	[illegible]
1.30	1.455709E+00	1.456020E+00	1.455461E+00	-1.978921E-03
1.40	[illegible]	[illegible]	[illegible]	[illegible]
1.50	1.439109E+00	1.420993E+00	1.438305E+00	-2.569966E-03
1.60	[illegible]	[illegible]	[illegible]	[illegible]
1.70	1.419279E+00	1.419779E+00	1.419517E+00	-3.209167E-03
1.80	[illegible]	[illegible]	[illegible]	[illegible]
1.90	1.399796E+00	1.399682E+00	1.399845E+00	-3.884557E-03
2.00	[illegible]	[illegible]	[illegible]	[illegible]
3.00	1.260007E+00	1.270090E+00	1.259399E+00	-7.731063E-03
4.00	[illegible]	[illegible]	[illegible]	[illegible]
5.00	1.041498E+00	1.043070E+00	1.041965E+00	-1.239196E-02
6.00	[illegible]	[illegible]	[illegible]	[illegible]
7.00	8.570370E-01	8.094134E-01	8.071534E-01	-1.454037E-02
8.00	[illegible]	[illegible]	[illegible]	[illegible]
9.00	7.789996E-01	7.789100E-01	7.775706E-01	-1.640697E-02
10.00	[illegible]	[illegible]	[illegible]	[illegible]
11.00	6.927311E-01	6.919177E-01	6.909769E-01	-1.774141E-02
12.00	[illegible]	[illegible]	[illegible]	[illegible]
13.00	6.210900E-01	6.202925E-01	6.191170E-01	-1.868199E-02
14.00	[illegible]	[illegible]	[illegible]	[illegible]
15.00	5.696990E-01	5.590160E-01	5.479730E-01	-1.931112E-02
16.00	[illegible]	[illegible]	[illegible]	[illegible]
17.00	5.005170E-01	5.092230E-01	5.067779E-01	-1.960473E-02
18.00	[illegible]	[illegible]	[illegible]	[illegible]
19.00	4.622966E-01	4.571671E-01	4.574639E-01	-1.979479E-02
20.00	[illegible]	[illegible]	[illegible]	[illegible]
22.00	4.022719E-01	3.949690E-01	3.959046E-01	-1.969671E-02
24.00	[illegible]	[illegible]	[illegible]	[illegible]
26.00	3.357267E-01	3.249669E-01	3.273005E-01	-1.890910E-02
28.00	[illegible]	[illegible]	[illegible]	[illegible]
30.00	2.814609E-01	2.669382E-01	2.709676E-01	-1.792920E-02
32.00	[illegible]	[illegible]	[illegible]	[illegible]
34.00	2.360704E-01	2.193650E-01	2.251179E-01	-1.684695E-02
36.00	[illegible]	[illegible]	[illegible]	[illegible]
38.00	2.000904E-01	1.799793E-01	1.861370E-01	-1.587169E-02
40.00	1.867390E-01	1.629946E-01	1.695097E-01	-1.526309E-02
42.00	1.700481E-01	1.476610E-01	1.544100E-01	-1.369801E-02
44.00	[illegible]	[illegible]	[illegible]	[illegible]
46.00	1.490729E-01	1.290696E-01	1.291590E-01	-1.150117E-02
48.00	[illegible]	[illegible]	[illegible]	[illegible]
50.00	1.294902E-01	9.894913E-02	1.063002E-01	-1.030979E-02
52.00	[illegible]	[illegible]	[illegible]	[illegible]
54.00	1.080307E-01	8.047090E-02	8.029320E-02	-8.397128E-03
56.00	[illegible]	[illegible]	[illegible]	[illegible]
58.00	9.469963E-02	6.998828E-02	7.321609E-02	-7.029998E-03
60.00	[illegible]	[illegible]	[illegible]	-7.004609E-03
62.00	8.290707E-02	9.341695E-02	8.061031E-02	-6.412376E-03
64.00	[illegible]	[illegible]	[illegible]	-5.946197E-03
66.00	7.321703E-02	6.351302E-02	5.003661E-02	-5.297973E-03
68.00	[illegible]	[illegible]	[illegible]	-4.771979E-03
70.00	6.501709E-02	3.546729E-02	4.117656E-02	-4.279015E-03
72.00	[illegible]	[illegible]	[illegible]	-3.007647E-03
74.00	5.809762E-02	2.897153E-02	3.341032E-02	-3.360079E-03
76.00	[illegible]	[illegible]	[illegible]	-2.942196E-03
78.00	5.221659E-02	2.379737E-02	2.722243E-02	-2.570713E-03
80.00	[illegible]	[illegible]	[illegible]	-2.157677E-03
82.00	4.721223E-02	1.971295E-02	2.178324E-02	-1.786479E-03
84.00	[illegible]	[illegible]	[illegible]	-1.639455E-03
86.00	4.296069E-02	1.653772E-02	1.717630E-02	-1.117673E-03
88.00	[illegible]	[illegible]	[illegible]	-8.856209E-04
90.00	3.977792E-02	1.417577E-02	1.317690E-02	-5.190755E-04
92.00	[illegible]	[illegible]	[illegible]	-2.275173E-04
94.00	3.512631E-02	1.279796E-02	9.676746E-03	4.617445E-05
96.00	[illegible]	[illegible]	[illegible]	3.012792E-04
98.00	3.361669E-02	1.119619E-02	6.059020E-03	5.679137E-04
100.00	[illegible]	[illegible]	[illegible]	7.796641E-04
102.00	3.107016E-02	1.049958E-02	4.087779E-03	9.957915E-04
104.00	[illegible]	[illegible]	[illegible]	1.204794E-03
106.00	2.906197E-02	1.016991E-02	1.912305E-03	1.406107E-03
108.00	[illegible]	[illegible]	2.783804E-04	1.590802E-03
110.00	2.729261E-02	1.016710E-02	-1.930230E-04	1.787743E-03
112.00	[illegible]	[illegible]	[illegible]	1.961723E-03
114.00	2.570059E-02	1.067790E-02	-1.959607E-03	2.137765E-03
116.00	[illegible]	[illegible]	-2.772218E-03	2.299795E-03
118.00	2.449660E-02	1.104461E-02	-3.960766E-03	2.457756E-03
120.00	[illegible]	[illegible]	[illegible]	2.629152E-03
122.00	2.334709E-02	1.196396E-02	-4.980346E-03	2.759461E-03
124.00	[illegible]	[illegible]	[illegible]	2.897793E-03
126.00	2.245367E-02	1.299730E-02	-6.267107E-03	3.029464E-03
128.00	[illegible]	[illegible]	[illegible]	3.169915E-03
130.00	2.169997E-02	1.496109E-02	-7.637115E-03	3.299416E-03
132.00	[illegible]	[illegible]	-7.983661E-03	3.425267E-03
134.00	2.106310E-02	1.567077E-02	-8.570399E-03	3.566026E-03
136.00	[illegible]	[illegible]	[illegible]	3.652235E-03
138.00	2.057691E-02	1.696982E-02	-9.597713E-03	3.773246E-03
140.00	[illegible]	1.727202E-02	-1.018125E-02	3.872233E-03
142.00	2.022650E-02	1.845161E-02	-1.061697E-02	3.975715E-03
144.00	[illegible]	[illegible]	-1.113172E-02	4.062595E-03
146.00	2.001069E-02	2.051671E-02	-1.159983E-02	4.136527E-03
148.00	[illegible]	[illegible]	-1.228356E-02	4.196327E-03
150.00	1.993994E-02	2.248771E-02	-1.276819E-02	4.281461E-03
152.00	[illegible]	[illegible]	-1.332136E-02	4.172615E-03
154.00	1.999910E-02	2.446092E-02	-1.399749E-02	4.082743E-03
156.00	[illegible]	[illegible]	[illegible]	3.903703E-03
158.00	2.016640E-02	2.615104E-02	-1.567015E-02	3.611690E-03
160.00	[illegible]	[illegible]	[illegible]	3.174635E-03
162.00	2.061030E-02	2.721736E-02	-1.717799E-02	2.548999E-03
164.00	[illegible]	[illegible]	[illegible]	1.869382E-03
166.00	2.180874E-02	2.760050E-02	-1.932600E-02	9.639563E-04
168.00	[illegible]	[illegible]	[illegible]	1.063671E-04
170.00	2.295799E-02	2.736960E-02	-2.203330E-02	-4.406773E-04
172.00	2.397106E-02	2.752214E-02	-2.467710E-02	-7.900169E-04
174.00	2.530900E-02	2.708261E-02	-2.940592E-02	-8.526007E-04
176.00	[illegible]	[illegible]	[illegible]	[illegible]
178.00	2.831294E-02	2.969569E-02	-2.967793E-02	-7.631593E-04
180.00	[illegible]	[illegible]	[illegible]	[illegible]

TABLE 3B2. NORMALIZED PHASE MATRIX FOR TYPE 3 AEROSOLS, M=1.50-0.01I, R_1=0.12μM, ν=4.5, λ=0.30μ

SCATTERING ANGLE	I1	I2	I3	I4
0.00	[illegible]	5.595761E+00	[illegible]	-5.460765E-15
.10	5.563995E+00	5.561271E+00	5.551804E+00	-7.460196E-06
.20	5.455916E+00	5.460176E+00	5.459967E+00	-1.399246E-0?
.30	5.331557E+00	5.318473E+00	5.313764E+00	-2.320601E-0?
.40	5.[illegible]E+00	5.108176E+00	5.[illegible]E+00	-7.914075E-0?
.50	4.87[illegible]E+00	4.878999E+00	4.976575E+00	-5.380781E-0?
.60	4.[illegible]E+00	4.[illegible]E+00	4.[illegible]E+00	-6.470761E-0?
.70	4.591795E+00	4.393192E+00	4.[illegible]E+00	-9.175272E-0?
.80	4.166632E+00	4.[illegible]E+00	4.[illegible]E+00	-1.265795E-0?
.90	3.957907E+00	3.957979E+00	3.962963E+00	-1.[illegible]E-02
1.00	3.[illegible]E+00	3.789324E+00	3.[illegible]E+00	-1.077039E-02
1.10	3.[illegible]E+00	3.676071E+00	3.673[illegible]E+00	-1.[illegible]E-0?
1.20	3.[illegible]E+00	3.[illegible]E+00	3.[illegible]E+00	-1.[illegible]E-02
1.30	3.757999E+00	3.396913E+00	3.394679E+00	-1.21[illegible]E-02
1.40	3.255229E+00	3.254961E+00	3.258079E+00	-1.[illegible]E-02
1.50	3.157620E+00	3.199193E+00	3.158221E+00	-1.[illegible]E-02
1.60	3.[illegible]E+00	3.[illegible]E+00	3.[illegible]E+00	-1.754701E-02
1.70	2.[illegible]E+00	2.[illegible]E+00	2.[illegible]E+00	-1.[illegible]E-0?
1.80	2.[illegible]E+00	[illegible]	[illegible]	-1.[illegible]E-02
1.90	2.975578E+00	2.[illegible]E+00	2.[illegible]E+00	-1.[illegible]E-02
2.00	2.769[illegible]E+00	2.[illegible]E+00	2.[illegible]E+00	-1.522203E-02
3.00	2.[illegible]E+00	2.[illegible]E+00	2.[illegible]E+00	-1.460757E-02
4.00	1.977363E+00	1.[illegible]E+00	1.[illegible]E+00	-2.137213E-02
5.00	1.754799E+00	1.[illegible]E+00	1.[illegible]E+00	-2.[illegible]E-02
6.00	1.595891E+00	1.591622E+00	1.[illegible]E+00	-2.591925E-02
7.00	1.[illegible]E+00	1.452566E+00	1.[illegible]E+00	-2.797706E-02
8.00	1.329727E+00	1.335382E+00	1.330602E+00	-2.992903E-02
9.00	1.227778E+00	1.239995E+00	1.229149E+00	-3.171171E-02
10.00	1.137818E+00	1.144922E+00	1.139981E+00	-3.331[illegible]E-02
11.00	1.059771E+00	1.059273E+00	1.[illegible]E+00	-3.463[illegible]E-02
12.00	9.891235E-01	9.975526E-01	9.[illegible]E-01	-3.566011E-02
13.00	9.[illegible]E-01	9.292564E-01	9.229955E-01	-3.[illegible]E-02
14.00	8.625913E-01	8.695577E-01	8.621712E-01	-3.657525E-02
15.00	8.063511E-01	8.174499E-01	8.053[illegible]E-01	-3.[illegible]E-02
16.00	7.552746E-01	7.[illegible]E-01	7.549129E-01	-3.681770E-02
17.00	7.071035E-01	7.160167E-01	7.069974E-01	-3.675[illegible]E-02
18.00	6.628772E-01	6.734259E-01	6.[illegible]E-01	-3.[illegible]E-02
19.00	6.199767E-01	6.299017E-01	6.[illegible]E-01	-3.[illegible]E-02
20.00	5.804294E-01	5.988094E-01	5.[illegible]E-01	-3.[illegible]E-02
22.00	5.[illegible]E-01	5.192792E-01	5.[illegible]E-01	-3.[illegible]E-02
24.00	4.495759E-01	4.457996E-01	4.[illegible]E-01	-3.[illegible]E-02
26.00	3.[illegible]E-01	4.919577E-01	3.930[illegible]E-01	-3.[illegible]E-02
28.00	3.435761E-01	3.[illegible]E-01	3.414727E-01	-3.[illegible]E-02
30.00	2.[illegible]E-01	3.199557E-01	2.991569E-01	-2.910713E-02
32.00	2.595955E-01	2.722795E-01	2.579909E-01	-2.730702E-02
34.00	2.249931E-01	2.[illegible]E-01	2.[illegible]E-01	-2.[illegible]E-02
36.00	1.[illegible]E-01	2.[illegible]E-01	1.971082E-01	-2.345445E-02
38.00	1.699716E-01	1.[illegible]E-01	1.714976E-01	-2.[illegible]E-02
40.00	1.471[illegible]E-01	1.[illegible]E-01	1.[illegible]E-01	-1.[illegible]E-02
42.00	1.[illegible]E-01	1.491190E-01	1.[illegible]E-01	-1.[illegible]E-02
44.00	1.[illegible]E-01	1.[illegible]E-01	1.[illegible]E-01	-1.557413E-02
46.00	9.445217E-02	1.117[illegible]E-01	9.[illegible]E-02	-1.371[illegible]E-02
48.00	[illegible]	[illegible]	[illegible]	-1.187924E-02
50.00	7.103791E-02	9.[illegible]E-02	7.[illegible]E-02	-1.00[illegible]E-02
52.00	[illegible]	[illegible]	[illegible]	-9.380825E-03
54.00	5.367[illegible]E-02	[illegible]	[illegible]	-6.914539E-03
56.00	[illegible]	[illegible]	[illegible]	-5.437208E-03
58.00	4.[illegible]E-02	5.676791E-02	4.36[illegible]E-02	-4.236[illegible]E-03

SCATTERING ANGLE	I1	I2	I3	I4
60.00	3.603563E-02	5.[illegible]E-02	7.[illegible]E-02	-[illegible]
62.00	3.195937E-02	4.627719E-02	3.[illegible]E-02	-2.[illegible]
64.00	2.834718E-02	4.239744E-02	3.[illegible]E-02	-1.[illegible]
66.00	2.536459E-02	3.[illegible]E-02	2.[illegible]E-02	-5.[illegible]
68.00	2.284921E-02	3.[illegible]E-02	2.469696E-02	2.[illegible]
70.00	2.075117E-02	3.[illegible]E-02	2.[illegible]E-02	[illegible]
72.00	1.[illegible]E-02	2.[illegible]E-02	2.[illegible]E-02	1.[illegible]
74.00	1.757029E-02	2.[illegible]E-02	1.[illegible]E-02	[illegible]
76.00	1.[illegible]E-02	2.518282E-02	1.[illegible]E-02	2.[illegible]
78.00	1.571[illegible]E-02	2.[illegible]E-02	1.[illegible]E-02	2.[illegible]
80.00	1.497107E-02	2.176985E-02	1.[illegible]E-02	2.[illegible]
82.00	1.[illegible]E-02	2.[illegible]E-02	1.[illegible]E-02	[illegible]
84.00	1.[illegible]E-02	1.912[illegible]E-02	1.[illegible]E-02	[illegible]
86.00	1.312[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	[illegible]
88.00	1.[illegible]E-02	1.673[illegible]E-02	1.[illegible]E-02	[illegible]
90.00	1.[illegible]E-02	1.[illegible]E-02	1.[illegible]E-02	[illegible]
92.00	1.[illegible]E-02	1.[illegible]E-02	9.[illegible]E-03	[illegible]
94.00	1.[illegible]E-02	1.[illegible]E-02	[illegible]	[illegible]
96.00	1.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	[illegible]
98.00	1.[illegible]E-02	1.[illegible]E-02	8.[illegible]E-03	[illegible]
100.00	1.[illegible]E-02	1.[illegible]E-02	7.852562E-03	2.[illegible]
102.00	1.[illegible]E-02	1.[illegible]E-02	7.[illegible]E-03	[illegible]
104.00	1.[illegible]E-02	1.[illegible]E-02	7.[illegible]E-03	2.[illegible]
106.00	1.[illegible]E-02	1.[illegible]E-02	6.[illegible]E-03	[illegible]
108.00	1.[illegible]E-02	1.[illegible]E-02	6.[illegible]E-03	2.[illegible]
110.00	9.[illegible]E-03	1.[illegible]E-02	[illegible]	2.[illegible]
112.00	9.[illegible]E-03	1.[illegible]E-02	[illegible]	2.[illegible]
114.00	9.[illegible]E-03	1.[illegible]E-02	[illegible]	[illegible]
116.00	9.[illegible]E-03	1.[illegible]E-02	5.[illegible]E-03	2.[illegible]
118.00	[illegible]	1.[illegible]E-02	5.[illegible]E-03	2.[illegible]
120.00	8.[illegible]E-03	1.[illegible]E-02	[illegible]	[illegible]
122.00	[illegible]	1.[illegible]E-02	[illegible]	[illegible]
124.00	8.[illegible]E-03	1.[illegible]E-02	5.572[illegible]E-03	[illegible]
126.00	8.[illegible]E-03	1.[illegible]E-02	[illegible]	[illegible]
128.00	7.[illegible]E-03	1.[illegible]E-02	5.[illegible]E-03	[illegible]
130.00	7.[illegible]E-03	1.[illegible]E-02	[illegible]	[illegible]
132.00	7.[illegible]E-03	1.[illegible]E-02	[illegible]	[illegible]
134.00	7.[illegible]E-03	1.[illegible]E-02	5.157[illegible]E-03	[illegible]
136.00	7.[illegible]E-03	1.[illegible]E-02	5.[illegible]E-03	[illegible]
138.00	7.[illegible]E-03	1.[illegible]E-02	[illegible]	[illegible]
140.00	7.[illegible]E-03	1.[illegible]E-02	[illegible]	5.[illegible]
142.00	[illegible]	1.[illegible]E-02	[illegible]	[illegible]
144.00	[illegible]	1.[illegible]E-02	[illegible]	5.[illegible]
146.00	[illegible]	1.[illegible]E-02	7.[illegible]E-03	[illegible]
148.00	[illegible]	[illegible]	[illegible]	5.[illegible]
150.00	7.[illegible]E-03	1.[illegible]E-02	7.[illegible]E-03	5.[illegible]
152.00	7.[illegible]E-03	2.[illegible]E-02	1.[illegible]E-03	[illegible]
154.00	7.[illegible]E-03	2.[illegible]E-02	1.[illegible]E-03	[illegible]
156.00	7.[illegible]E-03	2.[illegible]E-02	3.[illegible]E-04	[illegible]
158.00	7.[illegible]E-03	2.[illegible]E-02	-[illegible]E-04	[illegible]
160.00	7.[illegible]E-03	2.[illegible]E-02	-1.[illegible]E-03	5.[illegible]
162.00	[illegible]	2.[illegible]E-02	-3.[illegible]E-03	[illegible]
164.00	[illegible]	2.[illegible]E-02	-5.[illegible]E-03	2.[illegible]
166.00	[illegible]	[illegible]	-[illegible]E-03	1.[illegible]
168.00	1.[illegible]E-02	2.[illegible]E-02	-[illegible]E-03	-1.[illegible]
170.00	1.[illegible]E-02	2.[illegible]E-02	-1.[illegible]E-02	-1.[illegible]
172.00	1.[illegible]E-02	2.[illegible]E-02	-1.[illegible]E-02	-1.[illegible]
174.00	1.[illegible]E-02	2.[illegible]E-02	-1.[illegible]E-02	-1.[illegible]
176.00	2.[illegible]E-02	2.[illegible]E-02	-2.[illegible]E-02	-1.[illegible]
178.00	2.[illegible]E-02	2.[illegible]E-02	-2.[illegible]E-02	-[illegible]
180.00	2.463239E-02	2.463239E-02	-2.463223E-02	-4.529[illegible]E-15

TABLE IIIA. NORMALIZED PHASE MATRIX FOR TYPE 3 AEROSOLS, M=1.50-0.01I, R_g=0.10μm, ν=4.5, λ=0.49μ

SCATTERING ANGLE	I1	I2	I3	I4
0.00	3.313681E+00	3.313681E+00	3.313681E+00	-3.582073E-1[illegible]
.10	3.306094E+00	3.306417E+00	3.306409E+00	-1.067107E-04
.20	3.279586E+00	3.278598E+00	3.278582E+00	-6.199016E-04
.30	3.235999E+00	3.236186E+00	3.236027E+00	-9.196539E-04
.40	3.179867E+00	3.178989E+00	3.178922E+00	-1.574081E-03
.50	3.103399E+00	3.109578E+00	3.113417E+00	[illegible]
.60	3.030161E+00	3.030622E+00	3.030208E+00	[illegible]
.70	2.967080E+00	2.966280E+00	2.966117E+00	-4.357639E-03
.80	2.853561E+00	2.853951E+00	2.853746E+00	-4.916211E-03
.90	2.761597E+00	2.762373E+00	2.751795E+00	-5.720063E-03
1.00	2.673721E+00	2.670861E+00	2.670595E+00	-6.471608E-03
1.10	2.591860E+00	2.597376E+00	2.592084E+00	-7.127655E-03
1.20	2.497586E+00	2.498857E+00	2.497764E+00	-7.697635E-03
1.30	2.419751E+00	2.419912E+00	2.418598E+00	-8.172776E-03
1.40	2.366969E+00	2.365513E+00	2.365102E+00	-8.574287E-03
1.50	2.277651E+00	2.278319E+00	2.277593E+00	-8.916271E-03
1.60	2.215722E+00	2.216278E+00	2.215322E+00	-9.208172E-03
1.70	2.159776E+00	2.159908E+00	2.159573E+00	-9.477617E-03
1.80	2.137269E+00	2.139764E+00	2.137972E+00	-9.722711E-03
1.90	2.069347E+00	2.069966E+00	2.360511E+00	-9.966992E-03
2.00	2.015519E+00	2.015398E+00	2.015567E+00	-1.021799E-02
3.00	1.697966E+00	1.697209E+00	1.972956E+00	-1.260691E-02
4.00	1.646766E+00	1.686712E+00	1.656261E+00	-1.461609E-02
5.00	1.375899E+00	1.377911E+00	1.316779E+00	-1.664641E-02
6.00	1.223309E+00	1.221631E+00	1.220679E+00	-1.827270E-02
7.00	1.175212E+00	1.177017E+00	1.175365E+00	-1.986659E-02
8.00	1.046753E+00	1.046331E+00	1.264913E+00	-2.139931E-02
9.00	9.759860E-01	9.776565E-01	9.750572E-01	-2.249613E-02
10.00	9.136089E-01	9.158691E-01	9.172525E-01	-2.375599E-02
11.00	8.599711E-01	9.605906E-01	8.577962E-01	-2.459201E-02
12.00	8.085990E-01	8.107385E-01	8.274920E-01	-2.523993E-02
13.00	7.529767E-01	7.666199E-01	7.516921E-01	-2.574726E-02
14.00	7.206835E-01	7.220795E-01	7.199935E-01	-2.514693E-02
15.00	6.915636E-01	6.875998E-01	6.709915E-01	-2.667974E-02
16.00	6.459990E-01	6.460216E-01	6.629650E-01	-2.675234E-02
17.00	6.119867E-01	6.119679E-01	6.366995E-01	-2.695973E-02
18.00	5.791960E-01	5.731150E-01	5.751680E-01	-2.709857E-02
19.00	5.497672E-01	5.495590E-01	5.459967E-01	-2.713337E-02
20.00	5.210629E-01	5.137321E-01	5.171899E-01	-2.709697E-02
22.00	4.697177E-01	4.667976E-01	4.662794E-01	-2.697665E-02
24.00	4.225517E-01	4.193376E-01	4.174785E-01	-2.642220E-02
26.00	3.907657E-01	3.746629E-01	3.782365E-01	-2.596234E-02
28.00	3.633630E-01	3.392319E-01	3.357983E-01	-2.509759E-02
30.00	3.090919E-01	3.076111E-01	3.323764E-01	-2.417541E-02
32.00	2.796738E-01	2.724773E-01	2.712982E-01	-2.319954E-02
34.00	2.509114E-01	2.466179E-01	2.473119E-01	-2.219773E-02
36.00	2.263114E-01	2.191341E-01	2.191520E-01	-2.119867E-02
38.00	2.077974E-01	1.995592E-01	1.955654E-01	-2.016655E-02
40.00	1.896927E-01	1.763745E-01	1.753167E-01	-1.917756E-02
42.00	1.695739E-01	1.592791E-01	1.571362E-01	-1.810593E-02
44.00	1.497396E-01	1.428174E-01	1.407390E-01	-1.707153E-02
46.00	1.365218E-01	1.276511E-01	1.260764E-01	-1.602193E-02
48.00	1.212967E-01	1.144533E-01	1.128762E-01	-1.496937E-02
50.00	1.097979E-01	1.079963E-01	1.009372E-01	-1.396439E-02
52.00	9.872999E-02	9.261632E-02	9.043674E-02	-1.296163E-02
54.00	8.916679E-02	9.317519E-02	8.101467E-02	-1.207172E-02
56.00	8.059187E-02	7.490262E-02	7.261895E-02	-1.114015E-02
58.00	7.297969E-02	5.772344E-02	6.513813E-02	-1.029219E-02

SCATTERING ANGLE	I1	I2	I3	I4
60.00	6.591786E-02	6.127688E-02	5.461635E-02	-9.659627E-03
62.00	5.952459E-02	5.557691E-02	5.269590E-02	-8.577175E-03
64.00	5.394761E-02	5.048752E-02	4.712822E-02	-7.921473E-03
66.00	4.885192E-02	4.591946E-02	4.272905E-02	-7.197814E-03
68.00	4.423749E-02	4.172871E-02	3.859805E-02	-6.502215E-03
70.00	4.027949E-02	3.810559E-02	3.470225E-02	-5.970641E-03
72.00	3.659713E-02	3.481202E-02	3.015722E-02	-5.272747E-03
74.00	3.333291E-02	3.211746E-02	2.910279E-02	-4.553573E-03
76.00	3.039256E-02	2.962021E-02	2.536426E-02	-4.113473E-03
78.00	2.777016E-02	2.779555E-02	2.298136E-02	-3.673175E-03
80.00	2.536818E-02	2.537306E-02	2.385195E-02	-3.128731E-03
82.00	2.319779E-02	2.355110E-02	1.495214E-02	-2.609157E-03
84.00	2.127084E-02	2.193685E-02	1.228238E-02	-2.150735E-03
86.00	1.956419E-02	2.058646E-02	1.691275E-02	-1.775197E-03
88.00	1.833368E-02	1.928691E-02	1.451705E-02	-1.340721E-03
90.00	1.661397E-02	1.817911E-02	1.736775E-02	-9.665701E-04
92.00	1.537765E-02	1.716681E-02	1.226395E-02	-5.297722E-04
94.00	1.425037E-02	1.623957E-02	1.129571E-02	-2.656641E-04
96.00	1.376018E-02	1.560578E-02	1.062922E-02	6.572777E-05
98.00	1.237616E-02	1.657797E-02	9.659167E-03	[illegible]
100.00	1.153008E-02	1.686530E-02	9.331307E-03	[illegible]
102.00	1.091414E-02	1.769625E-02	8.799762E-03	[illegible]
104.00	1.018763E-02	1.297851E-02	7.963272E-03	[illegible]
106.00	9.679963E-03	1.751976E-02	7.315272E-03	[illegible]
108.00	9.166112E-03	1.711188E-02	6.376366E-03	1.772411E-03
110.00	8.729656E-03	1.177712E-02	6.375473E-03	[illegible]
112.00	8.338811E-03	1.151532E-02	5.969369E-03	[illegible]
114.00	7.993106E-03	1.118973E-02	5.599976E-03	[illegible]
116.00	7.676021E-03	1.113937E-02	5.265610E-03	[illegible]
118.00	7.386636E-03	1.039796E-02	4.910309E-03	[illegible]
120.00	7.166139E-03	1.037718E-02	4.580267E-03	[illegible]
122.00	6.975918E-03	1.097612E-02	4.277114E-03	[illegible]
124.00	6.876169E-03	1.083013E-02	3.971262E-03	[illegible]
126.00	6.705666E-03	1.091660E-02	3.667215E-03	[illegible]
128.00	6.615597E-03	1.106669E-02	3.367627E-03	[illegible]
130.00	6.556598E-03	1.129779E-02	3.054276E-03	[illegible]
132.00	6.517980E-03	1.166157E-02	2.772175E-03	[illegible]
134.00	6.495717E-03	1.175699E-02	2.497667E-03	[illegible]
136.00	6.658069E-03	1.218565E-02	2.186387E-03	[illegible]
138.00	6.663257E-03	1.251790E-02	1.867723E-03	[illegible]
140.00	6.679717E-03	1.294672E-02	1.531566E-03	[illegible]
142.00	6.576108E-03	1.352671E-02	1.172163E-03	[illegible]
144.00	6.679870E-03	1.416547E-02	7.439698E-04	[illegible]
146.00	6.793468E-03	1.496476E-02	3.641162E-04	[illegible]
148.00	6.968630E-03	1.561179E-02	-1.672267E-04	[illegible]
150.00	7.199077E-03	1.662972E-02	-6.071279E-04	[illegible]
152.00	7.455582E-03	1.735527E-02	-1.216171E-03	[illegible]
154.00	7.717669E-03	1.977460E-02	-1.964379E-03	[illegible]
156.00	7.993270E-03	1.885351E-02	-2.730657E-03	[illegible]
158.00	9.299962E-03	1.980957E-02	-3.597746E-03	[illegible]
160.00	9.576456E-03	1.937161E-02	-4.570369E-03	[illegible]
162.00	8.799596E-03	2.018196E-02	-5.619249E-03	[illegible]
164.00	9.175131E-03	2.011216E-02	-6.856793E-03	[illegible]
166.00	9.776579E-03	1.991976E-02	-8.096147E-03	[illegible]
168.00	1.371769E-02	1.967916E-02	-9.336173E-03	1.779727E-04
170.00	1.290016E-02	1.999797E-02	-1.177301E-02	[illegible]
172.00	1.392567E-02	1.970170E-02	-1.335972E-02	[illegible]
174.00	1.417458E-02	1.955797E-02	-1.570975E-02	[illegible]
176.00	1.823132E-02	2.015195E-02	-1.356412E-02	[illegible]
178.00	2.313977E-02	2.059666E-02	-2.070590E-02	[illegible]
180.00	2.094704E-02	2.034734E-02	-2.034704E-02	[illegible]

TABLE 3.15. NORMALIZED PHASE MATRIX FOR TYPE 3 AEROSOLS, M=1.50-0.01I, R_2=0.12μ, ν=4.5, λ=0.70μ

SCATTERING ANGLE	I1	I2	I3	I4
0.00	2.3256035E+00	2.3255325E+00	2.3256235E+00	-2.3553145E-15
.10	2.3260345E+00	2.3263635E+00	2.3261675E+00	-4.5631125E-[illegible]
.20	2.3153312E+00	2.3164395E+00	2.3163955E+00	-1.4677415E-05
.30	2.3037795E+00	2.3039795E+00	2.3074915E+00	-4.1017615E-06
.40	2.2956215E+00	2.2965305E+00	2.2966735E+00	-7.1759235E-06
.50	2.2468705E+00	2.2467975E+00	2.2547175E+00	-1.3649935E-07
.60	2.2397595E+00	2.2399465E+00	2.2389475E+00	-1.9637445E-07
.70	2.2097715E+00	2.2095475E+00	2.2109955E+00	-2.0611997E-07
.80	2.1755125E+00	2.1769305E+00	2.1767275E+00	-2.5797095E-07
.90	2.1411325E+00	2.1415965E+00	2.1613795E+00	-7.1458455E-07
1.00	2.1075195E+00	2.1040925E+00	2.1127925E+00	-7.7273115E-07
1.10	2.0662905E+00	2.0669695E+00	2.0345075E+00	-6.7170715E-07
1.20	2.0279925E+00	2.0265465E+00	2.0242555E+00	-6.8077155E-05
1.30	1.9970765E+00	1.9077305E+00	1.9932065E+00	-5.6567455E-07
1.40	1.9618625E+00	1.9625065E+00	1.9621375E+00	-5.4947265E-07
1.50	1.9014795E+00	1.9317955E+00	1.9711515E+00	-6.5524715E-07
1.60	1.8537995E+00	1.8816925E+00	1.5508125E+00	-5.9746575E-07
1.70	1.8299315E+00	1.8223175E+00	1.9217795E+00	-7.4097115E-07
1.80	1.7825675E+00	1.7837985E+00	1.7371215E+00	-7.9269235E-07
1.90	1.7456465E+00	1.7469615E+00	1.7682675E+00	-9.1697235E-07
2.00	1.7137795E+00	1.7116502E+00	1.7103935E+00	-9.4022755E-07
3.00	1.6627605E+00	1.6666595E+00	1.6676655E+00	-1.0757945E-07
4.00	1.2767395E+00	1.2746595E+00	1.2757165E+00	-1.2306935E-02
5.00	1.1511795E+00	1.1579597E+00	1.1515515E+00	-1.7727945E-07
6.00	1.0551545E+00	1.0565465E+00	1.0573635E+00	-1.4996365E-07
7.00	9.7419255E-01	9.7791375E-01	9.7519715E-01	-1.0916197E-07
8.00	9.9916955E-01	7.1365775E-01	9.3919555E-01	-1.5797515E-07
9.00	8.4120315E-01	8.5764995E-01	8.3907967E-01	-1.7979695E-07
10.00	9.0037595E-01	9.0799175E-01	7.9932495E-01	-1.9722455E-07
11.00	7.5614495E-01	7.5671567E-01	7.5784697E-01	-1.3301655E-07
12.00	7.1256725E-01	7.1273175E-01	7.1187757E-01	-1.9987215E-07
13.00	6.7696097E-01	6.7627065E-01	6.7745917E-01	-2.0786475E-07
14.00	6.3953517E-01	6.3977705E-01	5.9726715E-01	-7.3027775E-07
15.00	6.0717605E-01	6.0579515E-01	6.0643765E-01	-2.1206555E-07
16.00	5.7639117E-01	5.7508635E-01	5.7303130E-01	-2.1527835E-07
17.00	5.6090777E-01	5.4616065E-01	5.4518617E-01	-2.1776915E-07
18.00	5.2216307E-01	5.1901215E-01	5.1926857E-01	-2.1074835E-07
19.00	4.9765507E-01	4.9367077E-01	4.9971757E-01	-2.1960137E-07
20.00	4.7336795E-01	4.6915675E-01	4.5976566E-01	-2.2006395E-02
22.00	4.3045627E-01	4.7667706E-01	4.2675057E-01	-2.1917235E-02
24.00	3.9170695E-01	3.8194037E-01	3.9609795E-01	-2.1611377E-07
26.00	3.5850297E-01	[illegible]9138E-01	3.4590375E-01	-2.1159765E-07
28.00	3.2469575E-01	[illegible]3232E-01	3.1513895E-01	-2.0584795E-07
30.00	2.9985906E-01	[illegible]1061E-01	2.9581715E-01	-1.9909955E-07
32.00	2.6990695E-01	2.5577795E-01	2.5973935E-01	-1.9189645E-02
34.00	2.6596675E-01	2.3217197E-01	2.3594697E-01	-1.8679715E-07
36.00	2.2530895E-01	2.0701917E-01	2.1756557E-01	-1.7627945E-07
38.00	2.0910507E-01	1.8059605E-01	1.9766715E-01	-1.6799545E-07
40.00	1.8479585E-01	1.7174817E-01	1.7559217E-01	-1.5926697E-07
42.00	1.7299617E-01	1.5697627E-01	1.5915697E-01	-1.5279015E-07
44.00	1.5065307E-01	1.3958125E-01	1.4427835E-01	-1.4170365E-02
46.00	1.4946797E-01	1.2509617E-01	1.3379657E-01	-1.3278307E-07
48.00	1.3387807E-01	1.1369565E-01	1.1858835E-01	-1.2412675E-02
50.00	1.2719957E-01	1.0796675E-01	1.0796775E-01	-1.1077267E-07
52.00	1.1368375E-01	9.2671215E-02	9.7525765E-02	-1.0769495E-02
54.00	1.0646175E-01	9.3699765E-02	8.9673795E-02	-9.9917895E-03
56.00	9.6838406E-02	7.5517515E-02	8.8156635E-02	-9.2605415E-07
58.00	8.9774695E-02	6.8189775E-02	7.2961890E-02	-9.5219915E-07

SCATTERING ANGLE	I1	I2	I3	I4
60.00	8.2697375E-02	6.1509595E-02	6.9372955E-02	-7.1[illegible]
62.00	7.6951905E-02	5.5793425E-02	6.0767470E-02	-7.7[illegible]
64.00	7.1133977E-02	5.0332715E-02	5.5103555E-02	[illegible]
66.00	6.6759577E-02	4.5597777E-02	4.9114[illegible]	[illegible]
68.00	5.1672987E-02	4.1335677E-02	4.6775297E-02	[illegible]
70.00	5.7175587E-02	3.7651765E-02	4.3159357E-02	[illegible]
72.00	5.3236907E-02	3.6303837E-02	3.6775647E-02	[illegible]
74.00	4.9765197E-02	3.3971907E-02	3.3264657E-02	[illegible]
76.00	4.6619647E-02	2.8175025E-02	2.9686815E-02	[illegible]
78.00	4.7476797E-02	2.5709657E-02	2.6794315E-02	[illegible]
80.00	4.0758867E-02	2.3513267E-02	2.4173127E-02	[illegible]
82.00	3.8267975E-02	2.1567515E-02	2.1798277E-02	[illegible]
84.00	3.5975317E-02	1.9962637E-02	1.9609647E-02	[illegible]
86.00	3.3779917E-02	1.8315977E-02	1.7524757E-02	[illegible]
88.00	3.1876597E-02	1.6763965E-02	1.5913075E-02	-9.42[illegible]
90.00	3.0037105E-02	1.5747367E-02	1.4144077E-02	[illegible]
92.00	2.8318675E-02	1.4776667E-02	1.2631277E-02	[illegible]
94.00	2.6759175E-02	1.3972055E-02	1.1256767E-02	[illegible]
96.00	2.5917915E-02	1.3376305E-02	9.9786457E-03	[illegible]
98.00	2.3999617E-02	1.2751467E-02	8.8673547E-03	[illegible]
100.00	2.2756617E-02	1.1771215E-02	7.7843557E-03	[illegible]
102.00	2.1469717E-02	1.1799657E-02	6.9159757E-03	[illegible]
104.00	2.0618877E-02	1.0892797E-02	5.9794677E-03	[illegible]
106.00	1.9469127E-02	1.0572107E-02	5.1197107E-03	[illegible]
108.00	1.8779527E-02	1.0772947E-02	4.3596117E-03	[illegible]
110.00	1.7959717E-02	1.0141757E-02	3.6779607E-03	[illegible]
112.00	1.7236[illegible]E-02	1.0072037E-02	3.0267377E-03	[illegible]
114.00	1.6892797E-02	9.9597557E-03	2.6719797E-03	[illegible]
116.00	1.5991647E-02	9.9695167E-03	1.4587217E-03	[illegible]
118.00	1.5712957E-02	9.9753177E-03	1.7751757E-03	[illegible]
120.00	1.6791077E-02	1.0379965E-02	8.5742777E-04	[illegible]
122.00	1.6297797E-02	1.0777965E-02	7.9970917E-04	[illegible]
124.00	1.3459797E-02	1.0647775E-02	-2.7131435E-05	3.2172545E-07
126.00	1.3466615E-02	1.0566795E-02	-4.3375377E-04	[illegible]
128.00	1.3115067E-02	1.0751767E-02	-8.2972677E-04	[illegible]
130.00	1.2709797E-02	1.1955677E-02	-1.2112177E-03	[illegible]
132.00	1.2519677E-02	1.1687997E-02	-1.5964557E-03	[illegible]
134.00	1.2277697E-02	1.2094207E-02	-1.9613707E-03	[illegible]
136.00	1.2877687E-02	1.2561715E-02	-2.3173585E-03	4.2647556E-07
138.00	1.1935327E-02	1.3375757E-02	-2.6729867E-03	[illegible]
140.00	1.1777697E-02	1.3667767E-02	-2.6713175E-03	4.3[illegible]
142.00	1.1575707E-02	1.4769867E-02	-3.3703477E-03	[illegible]
144.00	1.1412097E-02	1.4957787E-02	-3.7760517E-03	4.3307517E-07
146.00	1.1477737E-02	1.5597977E-02	-4.1786977E-03	[illegible]
148.00	1.1560765E-02	1.6693267E-02	-4.6125277E-03	4.4767146E-07
150.00	1.1909997E-02	1.7797097E-02	-5.0907577E-03	[illegible]
152.00	1.1661297E-02	1.8091657E-02	-5.5163867E-03	4.5776725E-07
154.00	1.1779977E-02	1.8995787E-02	-6.2705777E-03	4.5617736E-07
156.00	1.1468787E-02	1.9637757E-02	-6.8505727E-03	4.2797577E-07
158.00	1.2369796E-02	2.0779697E-02	-7.5799977E-03	4.0776175E-07
160.00	1.2761277E-02	2.0421867E-02	-8.3855615E-03	3.6476375E-07
162.00	1.2906575E-02	2.1120777E-02	-9.7717807E-03	2.9471527E-07
164.00	1.2799037E-02	2.1166487E-02	-1.0723187E-02	2.3836715E-07
166.00	1.3217967E-02	2.1599795E-02	-1.1589967E-02	1.1199757E-07
168.00	1.3872087E-02	2.0777086E-02	-1.2353817E-02	1.9720567E-06
170.00	1.4896475E-02	2.0555627E-02	-1.4417127E-02	-5.1773475E-06
172.00	1.6311707E-02	2.0729777E-02	-1.6726797E-02	-9.2029725E-06
174.00	1.8064767E-02	2.0996657E-02	-1.9189765E-02	-9.9609175E-06
176.00	1.9850395E-02	2.1431695E-02	-2.0377726E-02	-7.2917367E-06
178.00	2.1794007E-02	2.1921577E-02	-2.1521607E-02	-2.7801597E-06
180.00	2.2851427E-02	2.2051426E-02	-2.2851426E-02	-2.1392755E-15

TABLE 38A. NORMALIZED PHASE MATRIX FOR TYPE 3 AEROSOLS, M=1.50-0.01I, R_1=0.12μm, ν=4.5, λ=1.06μ

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.525736E+00	1.525736E+00	1.525736E+00	-2.795175E-16
.10	1.525360E+00	1.525162E+00	1.525361E+00	-1.285296E-05
.20	1.524326E+00	1.524332E+00	1.524328E+00	-5.134024E-05
.30	1.522601E+00	1.522620E+00	1.522610E+00	-1.152533E-04
.40	1.520198E+00	1.520230E+00	1.520214E+00	-2.042435E-04
.50	1.517122E+00	1.517172E+00	1.517147E+00	-3.173295E-04
.60	1.513384E+00	1.513456E+00	1.513423E+00	-4.557073E-04
.70	1.508994E+00	1.509394E+00	1.509045E+00	-6.162085E-04
.80	1.503976E+00	1.504138E+00	1.504036E+00	-7.994752E-04
.90	1.498334E+00	1.498649E+00	1.498612E+00	-1.004016E-03
1.00	1.492094E+00	1.492287E+00	1.492189E+00	-1.229963E-03
1.10	1.485274E+00	1.485507E+00	1.485396E+00	-1.473091E-03
1.20	1.477901E+00	1.478173E+00	1.478024E+00	-1.735123E-03
1.30	1.469937E+00	1.470309E+00	1.470147E+00	-2.017756E-03
1.40	1.461577E+00	1.461939E+00	1.461753E+00	-2.307563E-03
1.50	1.452649E+00	1.453199E+00	1.452979E+00	-2.618123E-03
1.60	1.443175E+00	1.443787E+00	1.443551E+00	-2.934943E-03
1.70	1.433556E+00	1.434762E+00	1.433798E+00	-3.264495E-03
1.80	1.423392E+00	1.423962E+00	1.423681E+00	-3.605274E-03
1.90	1.412966E+00	1.413497E+00	1.413176E+00	-3.952717E-03
2.00	1.401971E+00	1.402636E+00	1.402306E+00	-4.306141E-03
3.00	1.291499E+00	1.292459E+00	1.291999E+00	-7.967737E-03
4.00	1.158649E+00	1.160158E+00	1.159241E+00	-1.077715E-02
5.00	1.051458E+00	1.057191E+00	1.052119E+00	-1.284057E-02
6.00	9.653031E-01	9.660967E-01	9.655305E-01	-1.771950E-02
7.00	8.957829E-01	8.959116E-01	8.957465E-01	-1.646565E-02
8.00	8.372339E-01	8.398528E-01	8.357116E-01	-1.959207E-02
9.00	7.999950E-01	7.863995E-01	7.851575E-01	-1.664477E-02
10.00	7.399377E-01	7.400291E-01	7.385393E-01	-1.712793E-02
11.00	6.907969E-01	6.906650E-01	6.907613E-01	-1.776127E-02
12.00	6.616829E-01	6.637663E-01	6.537366E-01	-1.926747E-02
13.00	6.277679E-01	6.291766E-01	6.251576E-01	-1.872465E-02
14.00	5.957956E-01	5.939593E-01	5.934012E-01	-1.912614E-02
15.00	5.560951E-01	5.670967E-01	5.673672E-01	-1.960763E-02
16.00	5.390172E-01	5.359635E-01	5.352425E-01	-1.957193E-02
17.00	5.137957E-01	5.095740E-01	5.074276E-01	-1.989539E-02
18.00	4.892876E-01	4.867979E-01	4.960855E-01	-1.902672E-02
19.00	4.695763E-01	4.612796E-01	4.615711E-01	-1.904511E-02
20.00	4.480732E-01	4.399671E-01	4.377954E-01	-1.990311E-02
22.00	4.095137E-01	3.970947E-01	3.992751E-01	-1.999097E-02
24.00	3.701370E-01	3.659686E-01	3.628327E-01	-1.962164E-02
26.00	3.397311E-01	3.272556E-01	3.299506E-01	-1.922624E-02
28.00	3.097739E-01	2.957756E-01	2.995193E-01	-1.971376E-02
30.00	2.979975E-01	2.698591E-01	2.709654E-01	-1.911[illegible]
32.00	2.597031E-01	2.439636E-01	2.453329E-01	-1.746905E-02
34.00	2.397691E-01	2.219577E-01	2.259477E-01	-1.579561E-02
36.00	2.183919E-01	2.081279E-01	2.055553E-01	-1.309763E-02
38.00	2.016394E-01	1.812998E-01	1.977206E-01	-1.572435E-02
40.00	1.855172E-01	1.660190E-01	1.796165E-01	-1.467197E-02
42.00	1.719798E-01	1.696309E-01	1.531461E-01	-1.357785E-02
44.00	1.573917E-01	1.362792E-01	1.612658E-01	-1.287035E-02
46.00	1.451990E-01	1.217999E-01	1.266617E-01	-1.206724E-02
48.00	1.355161E-01	1.097763E-01	1.171596E-01	-1.125073E-02
50.00	1.255167E-01	9.916150E-02	1.057301E-01	-1.050252E-02
52.00	1.165957E-01	8.957700E-02	9.718563E-02	-9.771452E-03
54.00	1.074575E-01	8.099777E-02	8.967637E-02	-9.060125E-03
56.00	1.013637E-01	7.326708E-02	8.05[illegible]E-02	-9.307917E-03
58.00	9.430798E-02	6.595103E-02	7.738927E-02	-7.755717E-03

SCATTERING ANGLE	I1	I2	I3	I4
60.00	8.813056E-02	5.953734E-02	6.668596E-02	-7.399833E-03
62.00	8.269396E-02	5.379952E-02	6.767477E-02	-6.689751E-03
64.00	7.736085E-02	4.850216E-02	5.510351E-02	-5.967025E-03
66.00	7.295679E-02	4.377216E-02	5.337950E-02	-5.757115E-03
68.00	6.831391E-02	3.952338E-02	4.528881E-02	-4.926775E-03
70.00	6.437612E-02	3.578742E-02	4.113595E-02	-4.739739E-03
72.00	6.068874E-02	3.227931E-02	2.719734E-02	-3.966826E-03
74.00	5.732979E-02	2.921176E-02	3.310739E-02	-3.464537E-03
76.00	5.426323E-02	2.666593E-02	3.028667E-02	-2.974795E-03
78.00	5.160837E-02	2.471779E-02	2.772682E-02	-2.516225E-03
80.00	4.877510E-02	2.183331E-02	2.462665E-02	-2.183717E-03
82.00	4.676355E-02	1.994626E-02	2.192097E-02	-1.927763E-03
84.00	4.409380E-02	1.821126E-02	1.967336E-02	-1.678595E-03
86.00	4.201667E-02	1.677592E-02	1.723596E-02	-1.377215E-03
88.00	4.309342E-02	1.543384E-02	1.518356E-02	-9.279497E-04
90.00	3.831919E-02	1.439615E-02	1.379577E-02	[illegible]
92.00	3.687060E-02	1.336144E-02	1.151316E-02	[illegible]
94.00	3.537967E-02	1.259781E-02	9.470377E-03	[illegible]
96.00	3.371658E-02	1.158216E-02	8.256613E-03	[illegible]
98.00	3.290771E-02	1.170777E-02	6.958791E-03	[illegible]
100.00	3.116668E-02	1.088872E-02	5.662969E-03	[illegible]
102.00	3.002997E-02	1.057957E-02	4.619602E-03	[illegible]
104.00	2.807088E-02	1.038381E-02	3.276172E-03	[illegible]
106.00	2.709463E-02	1.014194E-02	2.298567E-03	[illegible]
108.00	2.707170E-02	1.018363E-02	1.211539E-03	[illegible]
110.00	2.672157E-02	1.017956E-02	2.751464E-04	[illegible]
112.00	2.563666E-02	1.021513E-02	-6.077896E-04	[illegible]
114.00	2.479950E-02	1.077659E-02	-1.471798E-03	[illegible]
116.00	2.408498E-02	1.059778E-02	-2.239116E-03	[illegible]
118.00	2.349766E-02	1.099379E-02	-2.966198E-03	[illegible]
120.00	2.283372E-02	1.121770E-02	-3.570464E-03	[illegible]
122.00	2.198657E-02	1.150596E-02	-4.392239E-03	2.785746E-03
124.00	2.181646E-02	1.234273E-02	-4.925302E-03	2.929746E-03
126.00	2.135759E-02	1.253177E-02	-5.576391E-03	[illegible]
128.00	2.095826E-02	1.326775E-02	-6.079812E-03	3.200975E-03
130.00	2.059727E-02	1.369345E-02	-6.631969E-03	3.377895E-03
132.00	2.025964E-02	1.477795E-02	-7.189767E-03	3.467634E-03
134.00	1.995467E-02	1.494694E-02	-7.719907E-03	3.598275E-03
136.00	1.969756E-02	1.565708E-02	-8.279208E-03	3.721377E-03
138.00	1.967191E-02	1.661765E-02	-8.793576E-03	3.876761E-03
140.00	1.927764E-02	1.772981E-02	-9.178662E-03	[illegible]
142.00	1.911674E-02	1.936574E-02	-9.668149E-03	[illegible]
144.00	1.994817E-02	1.872159E-02	-1.031796E-02	[illegible]
146.00	1.849578E-02	1.985777E-02	-1.059771E-02	[illegible]
148.00	1.883852E-02	2.377885E-02	-1.120433E-02	[illegible]
150.00	1.891769E-02	2.174557E-02	-1.178190E-02	[illegible]
152.00	1.889089E-02	2.271653E-02	-1.253154E-02	[illegible]
154.00	1.869985E-02	2.365762E-02	-1.290285E-02	[illegible]
156.00	1.893779E-02	2.456188E-02	-1.352457E-02	[illegible]
158.00	1.902758E-02	2.571358E-02	-1.477166E-02	[illegible]
160.00	1.916756E-02	2.597266E-02	-1.519711E-02	[illegible]
162.00	1.930579E-02	2.632799E-02	-1.5113[illegible]	[illegible]
164.00	1.954758E-02	2.660739E-02	-1.716307E-02	[illegible]
166.00	1.992978E-02	2.666709E-02	-1.877972E-02	[illegible]
168.00	2.088575E-02	2.615658E-02	-1.984159E-02	[illegible]
170.00	2.151421E-02	2.676295E-02	-2.079517E-02	[illegible]
172.00	2.274176E-02	2.649919E-02	-2.257619E-02	[illegible]
174.00	2.431179E-02	2.610557E-02	-2.679174E-02	[illegible]
176.00	2.597316E-02	2.719721E-02	-2.611117E-02	[illegible]
178.00	2.727471E-02	2.760572E-02	-2.777[illegible]	[illegible]
180.00	2.737219E-02	[illegible]	-2.717[illegible]	[illegible]

TABLE 317. NORMALIZED PHASE MATRIX FOR TYPE 3 AEROSOLS, M=1.50-0.01i, R_g=0.06μM, ν=5.0, λ=0.30μ

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.417895E+00	1.417895E+00	1.417895E+00	-1.153185E-15
.10	1.414984E+00	1.414986E+00	1.414985E+00	-2.976736E-05
.20	1.406178E+00	1.406187E+00	1.406182E+00	-1.190240E-04
.30	1.392419E+00	1.392438E+00	1.392428E+00	-2.691164E-04
.40	1.374674E+00	1.374708E+00	1.374692E+00	-4.166299E-04
.50	1.354194E+00	1.354248E+00	1.354217E+00	-6.039429E-04
.60	1.332243E+00	1.332303E+00	1.332272E+00	-7.978167E-04
.70	1.309964E+00	1.310037E+00	1.309999E+00	-9.882241E-04
.80	1.288256E+00	1.288342E+00	1.288296E+00	-1.169392E-03
.90	1.267725E+00	1.267823E+00	1.267771E+00	-1.334758E-03
1.00	1.248682E+00	1.248790E+00	1.248731E+00	-1.480964E-03
1.10	1.231199E+00	1.231307E+00	1.231243E+00	-1.606476E-03
1.20	1.215139E+00	1.215265E+00	1.215195E+00	-1.810802E-03
1.30	1.200331E+00	1.200465E+00	1.200390E+00	-1.964486E-03
1.40	1.186944E+00	1.186887E+00	1.186806E+00	-2.121156E-03
1.50	1.173585E+00	1.173735E+00	1.173649E+00	-2.288378E-03
1.60	1.161308E+00	1.161466E+00	1.161374E+00	-2.441267E-03
1.70	1.149619E+00	1.149784E+00	1.149687E+00	-2.602776E-03
1.80	1.138461E+00	1.138633E+00	1.138531E+00	-2.764049E-03
1.90	1.127790E+00	1.127975E+00	1.127868E+00	-2.924726E-03
2.00	1.117598E+00	1.117788E+00	1.117669E+00	-3.084935E-03
3.00	1.033724E+00	1.033921E+00	1.033773E+00	-4.698546E-03
4.00	9.696316E-01	9.697620E-01	9.696020E-01	-6.295021E-03
5.00	9.165886E-01	9.164851E-01	9.163354E-01	-7.838865E-03
6.00	8.783492E-01	8.781277E-01	8.699961E-01	-9.274179E-03
7.00	8.298519E-01	8.285742E-01	8.284782E-01	-1.062889E-02
8.00	7.913503E-01	7.909719E-01	7.908037E-01	-1.188263E-02
9.00	7.564406E-01	7.553282E-01	7.553038E-01	-1.287399E-02
10.00	7.237983E-01	7.223898E-01	7.223376E-01	-1.383112E-02
11.00	6.930354E-01	6.911441E-01	6.912670E-01	-1.469383E-02
12.00	6.639127E-01	6.619649E-01	6.617607E-01	-1.548392E-02
13.00	6.362277E-01	6.333723E-01	6.337887E-01	-1.622206E-02
14.00	6.098356E-01	6.064188E-01	6.069195E-01	-1.692021E-02
15.00	5.846261E-01	5.805494E-01	5.812879E-01	-1.757999E-02
16.00	5.605052E-01	5.557990E-01	5.567242E-01	-1.819556E-02
17.00	5.374118E-01	5.319888E-01	5.331573E-01	-1.875455E-02
18.00	5.152849E-01	5.090744E-01	5.105292E-01	-1.926221E-02
19.00	4.940474E-01	4.870358E-01	4.887901E-01	-1.968824E-02
20.00	4.737329E-01	4.658192E-01	4.679057E-01	-1.996954E-02
22.00	4.354729E-01	4.257240E-01	4.284914E-01	-2.037676E-02
24.00	4.001401E-01	3.889950E-01	3.926811E-01	-2.053868E-02
26.00	3.675050E-01	3.548354E-01	3.584211E-01	-2.052193E-02
28.00	3.375925E-01	3.226993E-01	3.274147E-01	-2.035969E-02
30.00	3.100790E-01	2.935691E-01	2.988732E-01	-2.007666E-02
32.00	2.848045E-01	2.667440E-01	2.726264E-01	-1.969928E-02
34.00	2.616130E-01	2.421169E-01	2.485263E-01	-1.921233E-02
36.00	2.404691E-01	2.195591E-01	2.264278E-01	-1.863339E-02
38.00	2.212723E-01	1.989279E-01	2.061853E-01	-1.793804E-02
40.00	2.034828E-01	1.801899E-01	1.876739E-01	-1.723342E-02
42.00	1.871817E-01	1.629779E-01	1.707684E-01	-1.650619E-02
44.00	1.722569E-01	1.473040E-01	1.552961E-01	-1.584499E-02
46.00	1.585970E-01	1.330809E-01	1.411593E-01	-1.511639E-02
48.00	1.460999E-01	1.203374E-01	1.282389E-01	-1.437089E-02
50.00	1.346482E-01	1.086592E-01	1.164247E-01	-1.364419E-02
52.00	1.241076E-01	9.800669E-02	1.056600E-01	-1.279787E-02
54.00	1.145264E-01	8.852170E-02	9.586068E-02	-1.197420E-02
56.00	1.057159E-01	7.987524E-02	8.694054E-02	-1.116369E-02
58.00	9.782230E-02	7.207206E-02	7.885170E-02	-1.038176E-02

SCATTERING ANGLE	I1	I2	I3	I4
60.00	9.031338E-02	6.503289E-02	7.160038E-02	-9.637924E-03
62.00	8.363834E-02	5.869287E-02	6.479218E-02	-8.927841E-03
64.00	7.751938E-02	5.298937E-02	5.871151E-02	-8.267445E-03
66.00	7.190358E-02	4.787178E-02	5.316103E-02	-7.592972E-03
68.00	6.672848E-02	4.328679E-02	4.812446E-02	-6.959154E-03
70.00	6.194461E-02	3.918715E-02	4.356417E-02	-6.346752E-03
72.00	5.751991E-02	3.552688E-02	3.947973E-02	-5.755842E-03
74.00	5.342128E-02	3.229645E-02	3.584819E-02	-5.182871E-03
76.00	4.963032E-02	2.933223E-02	3.213956E-02	-4.628819E-03
78.00	4.622387E-02	2.671652E-02	2.899961E-02	-4.089486E-03
80.00	4.307594E-02	2.437701E-02	2.614498E-02	-3.569193E-03
82.00	4.028335E-02	2.229025E-02	2.355469E-02	-3.069619E-03
84.00	3.757410E-02	2.043823E-02	2.120979E-02	-2.594863E-03
86.00	3.514454E-02	1.880511E-02	1.908857E-02	-2.167673E-03
88.00	3.291211E-02	1.737133E-02	1.717295E-02	-1.720181E-03
90.00	3.082112E-02	1.611548E-02	1.547289E-02	-1.337424E-03
92.00	2.886762E-02	1.501558E-02	1.384724E-02	-9.577628E-04
94.00	2.704925E-02	1.404991E-02	1.239636E-02	-5.951803E-04
96.00	2.536904E-02	1.320165E-02	1.108771E-02	-2.410159E-04
98.00	2.383357E-02	1.245849E-02	9.853823E-03	1.034422E-04
100.00	2.243947E-02	1.181311E-02	8.748636E-03	4.378040E-04
102.00	2.117895E-02	1.126143E-02	7.745463E-03	7.548297E-04
104.00	2.003264E-02	1.079936E-02	6.815889E-03	1.049360E-03
106.00	1.897872E-02	1.042379E-02	6.003905E-03	1.329389E-03
108.00	1.799944E-02	1.012903E-02	5.238145E-03	1.573375E-03
110.00	1.708345E-02	9.903801E-03	4.528249E-03	1.812436E-03
112.00	1.622565E-02	9.776444E-03	3.867247E-03	2.045875E-03
114.00	1.542075E-02	9.614228E-03	3.254485E-03	2.272653E-03
116.00	1.469593E-02	9.531585E-03	2.688958E-03	2.493488E-03
118.00	1.402503E-02	9.489768E-03	2.169587E-03	2.708516E-03
120.00	1.341639E-02	9.496162E-03	1.698995E-03	2.898403E-03
122.00	1.286302E-02	9.558666E-03	1.261673E-03	3.060724E-03
124.00	1.236359E-02	9.679856E-03	8.185488E-04	3.216018E-03
126.00	1.191636E-02	9.853484E-03	3.882958E-04	3.360981E-03
128.00	1.151990E-02	1.006659E-02	-3.037216E-05	3.501477E-03
130.00	1.117290E-02	1.031665E-02	-4.442424E-04	3.637632E-03
132.00	1.087147E-02	1.059079E-02	-8.531315E-04	3.765771E-03
134.00	1.061077E-02	1.091966E-02	-1.256614E-03	3.880049E-03
136.00	1.038375E-02	1.128668E-02	-1.667820E-03	3.974404E-03
138.00	1.018619E-02	1.169095E-02	-2.095[illegible]E-03	4.046556E-03
140.00	1.001811E-02	1.214792E-02	-2.546[illegible]E-03	4.094362E-03
142.00	9.888604E-03	1.262687E-02	-3.00[illegible]E-03	4.126421E-03
144.00	9.773752E-03	1.313801E-02	-3.312274E-03	4.136502E-03
146.00	9.693916E-03	1.369589E-02	-3.754459E-03	4.121367E-03
148.00	9.638166E-03	1.429735E-02	-4.220636E-03	4.073978E-03
150.00	9.609526E-03	1.477844E-02	-4.720816E-03	3.984472E-03
152.00	9.615973E-03	1.534796E-02	-5.263144E-03	3.839471E-03
154.00	9.662988E-03	1.588776E-02	-5.851908E-03	3.638092E-03
156.00	9.749864E-03	1.637288E-02	-6.491237E-03	3.376802E-03
158.00	9.872364E-03	1.677619E-02	-7.189539E-03	2.982106E-03
160.00	1.006063E-02	1.707016E-02	-7.958753E-03	2.522224E-03
162.00	1.027216E-02	1.722428E-02	-8.809913E-03	1.962209E-03
164.00	1.059537E-02	1.722707E-02	-9.743415E-03	1.316484E-03
166.00	1.109766E-02	1.711316E-02	-1.076888E-02	6.481391E-04
168.00	1.172502E-02	1.696909E-02	-1.186030E-02	3.371881E-05
170.00	1.264786E-02	1.689438E-02	-1.305886E-02	-3.993328E-04
172.00	1.381516E-02	1.695195E-02	-1.437122E-02	-6.829251E-04
174.00	1.517945E-02	1.714487E-02	-1.957515E-02	-5.824604E-04
176.00	1.661090E-02	1.741471E-02	-1.679846E-02	-3.920629E-04
178.00	1.748078E-02	1.768149E-02	-1.751949E-02	-1.369809E-04
180.00	1.781019E-02	1.781018E-02	-1.781018E-02	-1.166300E-16

TABLE III8. NORMALIZED PHASE MATRIX FOR TYPE 3 AEROSOLS, M=1.50-0.01i, R_g=0.06μ, ν=5.0, λ=0.45μ

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.176021E+00	1.176021E+00	1.176021E+00	-9.619720E-16
.10	1.174043E+00	1.174043E+00	1.174042E+00	-1.667420E-05
.20	1.171349E+00	1.171350E+00	1.171348E+00	-6.584953E-05
.30	1.165661E+00	1.165672E+00	1.165666E+00	-1.450650E-04
.40	1.157492E+00	1.158012E+00	1.158002E+00	-2.584790E-04
.50	1.148884E+00	1.148634E+00	1.148619E+00	-3.722260E-04
.60	1.137086E+00	1.137847E+00	1.137826E+00	-5.190550E-04
.70	1.125931E+00	1.125983E+00	1.125956E+00	-6.727904E-04
.80	1.113319E+00	1.113378E+00	1.113345E+00	-8.380188E-04
.90	1.100200E+00	1.100352E+00	1.100316E+00	-9.893855E-04
1.00	1.087115E+00	1.087197E+00	1.087153E+00	-1.144946E-03
1.10	1.074968E+00	1.074158E+00	1.074109E+00	-1.295869E-03
1.20	1.061335E+00	1.061431E+00	1.061378E+00	-1.438458E-03
1.30	1.049058E+00	1.049168E+00	1.049108E+00	-1.574847E-03
1.40	1.037329E+00	1.037434E+00	1.037374E+00	-1.704888E-03
1.50	1.026149E+00	1.026299E+00	1.026236E+00	-1.829457E-03
1.60	1.015649E+00	1.015798E+00	1.015693E+00	-1.950263E-03
1.70	1.005678E+00	1.005789E+00	1.005722E+00	-2.060712E-03
1.80	9.962342E-01	9.963453E-01	9.962760E-01	-2.161135E-03
1.90	9.872639E-01	9.873736E-01	9.873039E-01	-2.303568E-03
2.00	9.787861E-01	9.788158E-01	9.787049E-01	-2.421644E-03
3.00	9.076094E-01	9.077669E-01	9.076989E-01	-3.619292E-03
4.00	8.539957E-01	8.5321446-01	8.530365E-01	-4.089971E-03
5.00	8.076877E-01	8.076377E-01	8.075585E-01	-4.818536E-03
6.00	7.681749E-01	7.680368E-01	7.679342E-01	-7.212153E-03
7.00	7.326886E-01	7.325175E-01	7.324114E-01	-8.386401E-03
8.00	7.005249E-01	7.000013E-01	6.999219E-01	-9.498115E-03
9.00	6.706946E-01	6.697974E-01	6.697917E-01	-1.051778E-02
10.00	6.42027E-01	6.414561E-01	6.415743E-01	-1.143218E-02
11.00	6.146299E-01	6.144697E-01	6.149617E-01	-1.224431E-02
12.00	5.918466E-01	5.892361E-01	5.897328E-01	-1.296761E-02
13.00	5.682969E-01	5.649889E-01	5.667282E-01	-1.361866E-02
14.00	5.458458E-01	5.410845E-01	5.427930E-01	-1.421844E-02
15.00	5.243958E-01	5.195719E-01	5.208476E-01	-1.479491E-02
16.00	5.034781E-01	4.982032E-01	4.990035E-01	-1.523842E-02
17.00	4.842389E-01	4.776329E-01	4.795967E-01	-1.567624E-02
18.00	4.654113E-01	4.578159E-01	4.601854E-01	-1.605548E-02
19.00	4.473699E-01	4.387218E-01	4.415244E-01	-1.638163E-02
20.00	4.300648E-01	4.203273E-01	4.235418E-01	-1.665511E-02
22.00	3.974736E-01	3.855591E-01	3.897189E-01	-1.715968E-02
24.00	3.673048E-01	3.532974E-01	3.583637E-01	-1.729944E-02
26.00	3.396278E-01	3.233982E-01	3.293231E-01	-1.730496E-02
28.00	3.140488E-01	2.956885E-01	3.024488E-01	-1.730572E-02
30.00	2.904756E-01	2.700681E-01	2.776183E-01	-1.726581E-02
32.00	2.687808E-01	2.464021E-01	2.546777E-01	-1.669894E-02
34.00	2.488285E-01	2.245462E-01	2.335246E-01	-1.624436E-02
36.00	2.305179E-01	2.044419E-01	2.140346E-01	-1.572571E-02
38.00	2.137352E-01	1.859334E-01	1.961857E-01	-1.515968E-02
40.00	1.983520E-01	1.689488E-01	1.796310E-01	-1.456167E-02
42.00	1.842347E-01	1.533935E-01	1.644995E-01	-1.394654E-02
44.00	1.712673E-01	1.391640E-01	1.507969E-01	-1.332185E-02
46.00	1.593580E-01	1.261351E-01	1.373192E-01	-1.268204E-02
48.00	1.483999E-01	1.142866E-01	1.249993E-01	-1.202384E-02
50.00	1.383349E-01	1.034036E-01	1.152469E-01	-1.134896E-02
52.00	1.290861E-01	9.340324E-02	1.053847E-01	-1.066760E-02
54.00	1.205881E-01	8.443588E-02	9.616792E-02	-9.991768E-03
56.00	1.127929E-01	7.619624E-02	8.777466E-02	-9.329865E-03
58.00	1.056398E-01	6.871178E-02	8.006928E-02	-8.684719E-03

SCATTERING ANGLE	I1	I2	I3	I4
60.00	9.986619E-02	6.192771E-02	7.299884E-02	-8.058597E-03
62.00	9.388888E-02	5.579884E-02	6.649726E-02	-7.453838E-03
64.00	8.748979E-02	5.026841E-02	6.052235E-02	-6.871591E-03
66.00	8.222548E-02	4.529137E-02	5.501578E-02	-6.309762E-03
68.00	7.742519E-02	4.071681E-02	4.993152E-02	-5.763195E-03
70.00	7.298568E-02	3.663248E-02	4.523545E-02	-5.228125E-03
72.00	6.884357E-02	3.295037E-02	4.090377E-02	-4.706422E-03
74.00	6.509212E-02	2.964476E-02	3.691719E-02	-4.204297E-03
76.00	6.150266E-02	2.669625E-02	3.325323E-02	-3.727928E-03
78.00	5.832827E-02	2.408299E-02	2.988246E-02	-3.270719E-03
80.00	5.538631E-02	2.177536E-02	2.677242E-02	-2.852738E-03
82.00	5.249823E-02	1.973766E-02	2.389068E-02	-2.444804E-03
84.00	4.988797E-02	1.793599E-02	2.121574E-02	-2.048753E-03
86.00	4.746867E-02	1.634676E-02	1.873424E-02	-1.667106E-03
88.00	4.528145E-02	1.495028E-02	1.644108E-02	-1.301487E-03
90.00	4.309798E-02	1.376449E-02	1.432777E-02	-9.541847E-04
92.00	4.113836E-02	1.275681E-02	1.238057E-02	-6.257453E-04
94.00	3.931258E-02	1.191577E-02	1.057955E-02	-3.158149E-04
96.00	3.761151E-02	1.122171E-02	9.904415E-03	-2.884255E-05
98.00	3.602712E-02	1.065403E-02	7.399939E-03	2.607443E-04
100.00	3.455139E-02	1.020863E-02	5.876638E-03	5.283108E-04
102.00	3.317542E-02	9.856462E-03	4.518627E-03	7.829623E-04
104.00	3.188998E-02	9.620464E-03	3.258274E-03	1.024968E-03
106.00	3.068618E-02	9.489501E-03	2.091978E-03	1.254988E-03
108.00	2.955829E-02	9.448526E-03	1.009837E-03	1.474358E-03
110.00	2.850449E-02	9.478973E-03	-2.947649E-06	1.684125E-03
112.00	2.752580E-02	9.556139E-03	-9.538711E-04	1.884854E-03
114.00	2.661933E-02	9.722844E-03	-1.844986E-03	2.072499E-03
116.00	2.578029E-02	9.963790E-03	-2.692511E-03	2.247594E-03
118.00	2.500749E-02	1.022802E-02	-3.499780E-03	2.409133E-03
120.00	2.429868E-02	1.057499E-02	-4.273366E-03	2.559079E-03
122.00	2.366804E-02	1.097151E-02	-4.939944E-03	2.700198E-03
124.00	2.297466E-02	1.140890E-02	-5.668738E-03	2.833424E-03
126.00	2.238990E-02	1.188280E-02	-6.242246E-03	2.961669E-03
128.00	2.184064E-02	1.239323E-02	-6.843731E-03	3.088975E-03
130.00	2.135173E-02	1.294091E-02	-7.418965E-03	3.198652E-03
132.00	2.089746E-02	1.352439E-02	-7.979983E-03	3.289641E-03
134.00	2.048393E-02	1.414059E-02	-8.521583E-03	3.376784E-03
136.00	2.011064E-02	1.478738E-02	-9.059552E-03	3.458981E-03
138.00	1.977025E-02	1.546179E-02	-9.590621E-03	3.511826E-03
140.00	1.946468E-02	1.617193E-02	-1.011457E-02	3.555441E-03
142.00	1.923417E-02	1.690586E-02	-1.063350E-02	3.582993E-03
144.00	1.901863E-02	1.765761E-02	-1.115284E-02	3.592151E-03
146.00	1.883888E-02	1.842197E-02	-1.167949E-02	3.581827E-03
148.00	1.869359E-02	1.918991E-02	-1.220719E-02	3.544717E-03
150.00	1.857872E-02	1.995252E-02	-1.275017E-02	3.474425E-03
152.00	1.849978E-02	2.069853E-02	-1.331159E-02	3.354464E-03
154.00	1.844619E-02	2.141073E-02	-1.390271E-02	3.184691E-03
156.00	1.839157E-02	2.206327E-02	-1.453335E-02	2.960083E-03
158.00	1.832901E-02	2.262059E-02	-1.521141E-02	2.680562E-03
160.00	1.843797E-02	2.307878E-02	-1.594358E-02	2.219317E-03
162.00	1.855886E-02	2.339252E-02	-1.673463E-02	1.721019E-03
164.00	1.875111E-02	2.356980E-02	-1.758045E-02	1.155078E-03
166.00	1.904669E-02	2.363696E-02	-1.850889E-02	5.767847E-04
168.00	1.946537E-02	2.366247E-02	-1.950037E-02	0.000000E+00
170.00	2.042416E-02	2.372979E-02	-2.056722E-02	-3.186373E-04
172.00	2.141153E-02	2.389362E-02	-2.164959E-02	-5.182480E-04
174.00	2.293117E-02	2.415257E-02	-2.293889E-02	-5.040264E-04
176.00	2.363350E-02	2.445359E-02	-2.346182E-02	-3.417595E-04
178.00	2.449950E-02	2.471941E-02	-2.455081E-02	-1.184043E-04
180.00	2.484190E-02	2.484190E-02	-2.484194E-02	-9.448558E-17

TABLE B19. NORMALIZED PHASE MATRIX FOR TYPE B AEROSOLS, M=1.50-0.01I, R_1=0.06μM, ν=5.0, λ=0.70μ

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.038897E+00	1.038897E+00	1.038897E+00	-8.933943E-16
.10	1.038417E+00	1.038417E+00	1.038417E+00	-1.018908E-05
.20	1.036985E+00	1.036985E+00	1.036984E+00	-4.053881E-05
.30	1.034617E+00	1.034622E+00	1.034619E+00	-9.040665E-05
.40	1.031356E+00	1.031364E+00	1.031360E+00	-1.587499E-04
.50	1.027248E+00	1.027268E+00	1.027254E+00	-2.441676E-04
.60	1.022354E+00	1.022371E+00	1.022362E+00	-3.449556E-04
.70	1.016744E+00	1.016766E+00	1.016755E+00	-4.591723E-04
.80	1.010496E+00	1.010523E+00	1.010509E+00	-5.847125E-04
.90	1.003693E+00	1.003726E+00	1.003709E+00	-7.193844E-04
1.00	9.964234E-01	9.964689E-01	9.964406E-01	-8.609875E-04
1.10	9.887744E-01	9.888162E-01	9.887931E-01	-1.007387E-03
1.20	9.806335E-01	9.806789E-01	9.806533E-01	-1.156588E-03
1.30	9.726852E-01	9.727333E-01	9.727055E-01	-1.306757E-03
1.40	9.644892E-01	9.644589E-01	9.644293E-01	-1.456343E-03
1.50	9.568795E-01	9.561293E-01	9.560981E-01	-1.604833E-03
1.60	9.477686E-01	9.478102E-01	9.477781E-01	-1.748811E-03
1.70	9.395117E-01	9.395596E-01	9.395269E-01	-1.889954E-03
1.80	9.313814E-01	9.314263E-01	9.313935E-01	-2.027022E-03
1.90	9.234095E-01	9.235593E-01	9.234178E-01	-2.159439E-03
2.00	9.156269E-01	9.156525E-01	9.156308E-01	-2.288458E-03
3.00	8.499086E-01	8.499578E-01	8.498671E-01	-3.439676E-03
4.00	7.998583E-01	7.997811E-01	7.997113E-01	-4.569653E-03
5.00	7.573516E-01	7.576391E-01	7.576023E-01	-5.664747E-03
6.00	7.215998E-01	7.218388E-01	7.214478E-01	-6.723180E-03
7.00	6.890523E-01	6.891315E-01	6.883496E-01	-7.728059E-03
8.00	6.593913E-01	6.588286E-01	6.583855E-01	-8.675373E-03
9.00	6.319395E-01	6.308098E-01	6.305489E-01	-9.554024E-03
10.00	6.062828E-01	6.039127E-01	6.049849E-01	-1.038555E-02
11.00	5.821116E-01	5.791924E-01	5.803326E-01	-1.115632E-02
12.00	5.592277E-01	5.556829E-01	5.567355E-01	-1.186988E-02
13.00	5.376719E-01	5.332510E-01	5.345344E-01	-1.251696E-02
14.00	5.167187E-01	5.117738E-01	5.133143E-01	-1.309765E-02
15.00	4.960708E-01	4.911578E-01	4.929814E-01	-1.361348E-02
16.00	4.770564E-01	4.713319E-01	4.733555E-01	-1.407096E-02
17.00	4.596218E-01	4.522376E-01	4.547884E-01	-1.447445E-02
18.00	4.421266E-01	4.337829E-01	4.366661E-01	-1.482548E-02
19.00	4.253358E-01	4.160742E-01	4.193832E-01	-1.512784E-02
20.00	4.092192E-01	3.989467E-01	4.025896E-01	-1.537153E-02
22.00	3.788898E-01	3.664485E-01	3.718039E-01	-1.573179E-02
24.00	3.508994E-01	3.362875E-01	3.417248E-01	-1.593336E-02
26.00	3.251425E-01	3.082369E-01	3.146884E-01	-1.598446E-02
28.00	3.014226E-01	2.822311E-01	2.895195E-01	-1.590337E-02
30.00	2.795866E-01	2.581575E-01	2.663248E-01	-1.571208E-02
32.00	2.595804E-01	2.359020E-01	2.449967E-01	-1.542897E-02
34.00	2.412138E-01	2.153417E-01	2.251134E-01	-1.504446E-02
36.00	2.246271E-01	1.963897E-01	2.066587E-01	-1.458099E-02
38.00	2.096863E-01	1.789865E-01	1.899972E-01	-1.410847E-02
40.00	1.960564E-01	1.628071E-01	1.744555E-01	-1.355381E-02
42.00	1.838814E-01	1.480039E-01	1.601345E-01	-1.297788E-02
44.00	1.688882E-01	1.344126E-01	1.469477E-01	-1.238389E-02
46.00	1.577275E-01	1.219586E-01	1.348127E-01	-1.177346E-02
48.00	1.475868E-01	1.105549E-01	1.236446E-01	-1.115494E-02
50.00	1.382356E-01	1.001226E-01	1.133559E-01	-1.053309E-02
52.00	1.296487E-01	9.057713E-02	1.038865E-01	-9.909464E-03
54.00	1.217398E-01	8.188818E-02	9.518729E-02	-9.287903E-03
56.00	1.144581E-01	7.387791E-02	8.726638E-02	-8.676141E-03
58.00	1.077386E-01	6.661643E-02	7.957184E-02	-8.079484E-03

SCATTERING ANGLE	I1	I2	I3	I4
60.00	1.015611E-01	6.001499E-02	7.269687E-02	-7.497705E-03
62.00	9.586685E-02	5.402220E-02	6.634660E-02	-6.921699E-03
64.00	9.060608E-02	4.858482E-02	6.047730E-02	-6.384098E-03
66.00	8.573982E-02	4.365410E-02	5.504139E-02	-5.856044E-03
68.00	8.123832E-02	3.919147E-02	5.000321E-02	-5.346309E-03
70.00	7.707341E-02	3.516621E-02	4.533526E-02	-4.854024E-03
72.00	7.321509E-02	3.154969E-02	4.101093E-02	-4.379671E-03
74.00	6.963833E-02	2.830992E-02	3.700035E-02	-3.923578E-03
76.00	6.631605E-02	2.541306E-02	3.327567E-02	-3.485358E-03
78.00	6.322638E-02	2.282940E-02	2.981049E-02	-3.064526E-03
80.00	6.034908E-02	2.053709E-02	2.658699E-02	-2.660661E-03
82.00	5.766894E-02	1.851780E-02	2.358945E-02	-2.273292E-03
84.00	5.517381E-02	1.675219E-02	2.080086E-02	-1.902268E-03
86.00	5.285164E-02	1.521836E-02	1.820281E-02	-1.548062E-03
88.00	5.068851E-02	1.389656E-02	1.577841E-02	-1.211764E-03
90.00	4.866998E-02	1.277150E-02	1.351412E-02	-8.916329E-04
92.00	4.678321E-02	1.183074E-02	1.139887E-02	-5.877600E-04
94.00	4.501918E-02	1.106093E-02	9.421723E-03	-2.979589E-04
96.00	4.337044E-02	1.044678E-02	7.578655E-03	-2.156003E-05
98.00	4.183833E-02	9.974108E-03	5.834885E-03	2.411316E-04
100.00	4.039119E-02	9.632855E-03	4.204854E-03	4.903174E-04
102.00	3.904513E-02	9.415225E-03	2.674517E-03	7.273688E-04
104.00	3.778491E-02	9.311627E-03	1.238268E-03	9.535849E-04
106.00	3.660477E-02	9.318974E-03	-1.185376E-04	1.169051E-03
108.00	3.550062E-02	9.404437E-03	-1.379225E-03	1.373230E-03
110.00	3.446928E-02	9.586281E-03	-2.574581E-03	1.566815E-03
112.00	3.350649E-02	9.858876E-03	-3.782319E-03	1.747549E-03
114.00	3.260696E-02	1.019893E-02	-4.767522E-03	1.917801E-03
116.00	3.176462E-02	1.059926E-02	-5.775343E-03	2.076703E-03
118.00	3.097534E-02	1.107843E-02	-6.738967E-03	2.225648E-03
120.00	3.023801E-02	1.159965E-02	-7.639145E-03	2.366665E-03
122.00	2.955285E-02	1.218136E-02	-8.584154E-03	2.500473E-03
124.00	2.891886E-02	1.281827E-02	-9.338145E-03	2.626189E-03
126.00	2.833319E-02	1.348274E-02	-1.012049E-02	2.742706E-03
128.00	2.779243E-02	1.419586E-02	-1.097711E-02	2.850692E-03
130.00	2.729342E-02	1.494678E-02	-1.168137E-02	2.949334E-03
132.00	2.683361E-02	1.573274E-02	-1.229587E-02	3.041666E-03
134.00	2.641140E-02	1.655894E-02	-1.296496E-02	3.128667E-03
136.00	2.602591E-02	1.739677E-02	-1.361399E-02	3.189733E-03
138.00	2.567636E-02	1.826566E-02	-1.424843E-02	3.244443E-03
140.00	2.536166E-02	1.915452E-02	-1.487327E-02	3.292537E-03
142.00	2.508212E-02	2.006803E-02	-1.542916E-02	3.333796E-03
144.00	2.483790E-02	2.098146E-02	-1.617225E-02	3.368622E-03
146.00	2.463828E-02	2.191145E-02	-1.671988E-02	3.395558E-03
148.00	2.448421E-02	2.284230E-02	-1.733216E-02	3.260085E-03
150.00	2.437938E-02	2.376148E-02	-1.794859E-02	3.194126E-03
152.00	2.432107E-02	2.465338E-02	-1.857578E-02	3.887078E-03
154.00	2.431383E-02	2.550194E-02	-1.922188E-02	2.926456E-03
156.00	2.437819E-02	2.628154E-02	-1.990954E-02	2.699788E-03
158.00	2.448616E-02	2.697544E-02	-2.060529E-02	2.396914E-03
160.00	2.469288E-02	2.754753E-02	-2.135675E-02	2.012266E-03
162.00	2.498785E-02	2.797686E-02	-2.215342E-02	1.549931E-03
164.00	2.537891E-02	2.825376E-02	-2.299687E-02	1.029959E-03
166.00	2.588137E-02	2.838118E-02	-2.388522E-02	4.991606E-04
168.00	2.650089E-02	2.836857E-02	-2.482208E-02	3.039402E-05
170.00	2.723539E-02	2.822587E-02	-2.581847E-02	-3.805832E-04
172.00	2.669437E-02	2.808422E-02	-2.686148E-02	-4.775215E-04
174.00	2.767217E-02	2.985372E-02	-2.789831E-02	-4.712171E-04
176.00	2.863903E-02	2.934884E-02	-2.882258E-02	-3.220375E-04
178.00	2.948308E-02	2.959575E-02	-2.947884E-02	-1.125212E-04
180.00	2.971338E-02	2.971338E-02	-2.971338E-02	-4.985193E-17

TABLE B20. NORMALIZED PHASE MATRIX FOR TYPE B AEROSOLS, M=1.50-0.01I, R_g=0.06μM, ν=5.0, λ=3.60μ

SCATTERING ANGLE	I1	I2	I3	I4
0.00	0.989606E-01	0.989606E-01	0.989606E-01	-5.233924E-16
.10	0.989539E-01	0.989539E-01	0.989539E-01	-4.427727E-06
.20	0.989337E-01	0.989337E-01	0.989338E-01	-1.767173E-05
.30	0.898618E-01	0.898614E-01	0.898612E-01	-3.968962E-05
.40	0.888758E-01	0.888821E-01	0.888785E-01	-7.038128E-05
.50	0.879327E-01	0.879437E-01	0.879381E-01	-1.096146E-04
.60	0.867066E-01	0.868024E-01	0.867945E-01	-1.572219E-04
.70	0.854483E-01	0.854616E-01	0.854589E-01	-2.129994E-04
.80	0.838979E-01	0.839251E-01	0.839112E-01	-2.767127E-04
.90	0.821628E-01	0.821974E-01	0.821799E-01	-3.480946E-04
1.00	0.802412E-01	0.802834E-01	0.802619E-01	-4.264493E-04
1.10	0.781381E-01	0.781885E-01	0.781628E-01	-5.126544E-04
1.20	0.758379E-01	0.759106E-01	0.758803E-01	-6.061832E-04
1.30	0.734117E-01	0.734886E-01	0.734448E-01	-7.064072E-04
1.40	0.708019E-01	0.708793E-01	0.708398E-01	-8.087995E-04
1.50	0.680636E-01	0.681237E-01	0.680780E-01	-9.191378E-04
1.60	0.652129E-01	0.652263E-01	0.652169E-01	-1.034684E-03
1.70	0.622868E-01	0.621769E-01	0.621199E-01	-1.154775E-03
1.80	0.593026E-01	0.590812E-01	0.589382E-01	-1.279217E-03
1.90	0.562723E-01	0.557812E-01	0.556323E-01	-1.407494E-03
2.00	0.521459E-01	0.522052E-01	0.522181E-01	-1.539170E-03
3.00	0.133321E-01	0.135551E-01	0.134288E-01	-2.958838E-03
4.00	7.719577E-01	7.717461E-01	7.716152E-01	-4.314229E-03
5.00	7.321886E-01	7.323858E-01	7.321300E-01	-5.481317E-03
6.00	6.971579E-01	6.970771E-01	6.969533E-01	-6.494174E-03
7.00	6.668621E-01	6.656911E-01	6.656448E-01	-7.443795E-03
8.00	6.377489E-01	6.378146E-01	6.378703E-01	-8.367827E-03
9.00	6.114059E-01	6.102347E-01	6.104194E-01	-9.264258E-03
10.00	5.866909E-01	5.850055E-01	5.853498E-01	-1.085818E-02
11.00	5.634428E-01	5.611849E-01	5.617032E-01	-1.078389E-02
12.00	5.414777E-01	5.385357E-01	5.393030E-01	-1.145453E-02
13.00	5.206808E-01	5.169319E-01	5.179627E-01	-1.206917E-02
14.00	5.006990E-01	4.962223E-01	4.975521E-01	-1.262394E-02
15.00	4.816763E-01	4.763353E-01	4.779903E-01	-1.311780E-02
16.00	4.634769E-01	4.572191E-01	4.592448E-01	-1.355590E-02
17.00	4.460361E-01	4.388488E-01	4.412285E-01	-1.394028E-02
18.00	4.293065E-01	4.210578E-01	4.239082E-01	-1.427421E-02
19.00	4.132479E-01	4.039424E-01	4.072263E-01	-1.455768E-02
20.00	3.978337E-01	3.874404E-01	3.911017E-01	-1.479353E-02
22.00	3.688138E-01	3.561784E-01	3.606644E-01	-1.513991E-02
24.00	3.420217E-01	3.278936E-01	3.327358E-01	-1.533044E-02
26.00	3.172998E-01	3.020678E-01	3.066596E-01	-1.537826E-02
28.00	2.945142E-01	2.784790E-01	2.825808E-01	-1.530145E-02
30.00	2.735225E-01	2.571199E-01	2.601397E-01	-1.511244E-02
32.00	2.542059E-01	2.378183E-01	2.394547E-01	-1.482662E-02
34.00	2.364435E-01	2.203774E-01	2.203430E-01	-1.445997E-02
36.00	2.201267E-01	1.918086E-01	2.026963E-01	-1.402597E-02
38.00	2.051468E-01	1.749258E-01	1.864158E-01	-1.353681E-02
40.00	1.913997E-01	1.592993E-01	1.713979E-01	-1.301267E-02
42.00	1.787778E-01	1.449171E-01	1.575462E-01	-1.245725E-02
44.00	1.671873E-01	1.316971E-01	1.447732E-01	-1.188329E-02
46.00	1.565383E-01	1.195557E-01	1.329906E-01	-1.129503E-02
48.00	1.467555E-01	1.084212E-01	1.221222E-01	-1.069706E-02
50.00	1.377654E-01	9.821746E-02	1.120958E-01	-1.009620E-02
52.00	1.295888E-01	8.887544E-02	1.028412E-01	-9.495099E-03
54.00	1.219819E-01	8.032912E-02	9.429499E-02	-8.908333E-03
56.00	1.149877E-01	7.251749E-02	8.639628E-02	-8.316507E-03
58.00	1.084664E-01	6.538704E-02	7.909183E-02	-7.749988E-03

SCATTERING ANGLE	I1	I2	I3	I4
60.00	1.025264E-01	5.888075E-02	7.233218E-02	-7.198899E-03
62.00	9.704184E-02	5.297715E-02	6.607144E-02	-6.658814E-03
64.00	9.197513E-02	4.760890E-02	6.028948E-02	-6.125641E-03
66.00	8.729116E-02	4.274131E-02	5.448078E-02	-5.615403E-03
68.00	8.296028E-02	3.833488E-02	4.909924E-02	-5.128731E-03
70.00	7.895214E-02	3.435478E-02	4.524754E-02	-4.664833E-03
72.00	7.523631E-02	3.077858E-02	4.092938E-02	-4.188639E-03
74.00	7.178684E-02	2.755526E-02	3.691971E-02	-3.752199E-03
76.00	6.858852E-02	2.468342E-02	3.316392E-02	-3.333946E-03
78.00	6.559977E-02	2.212913E-02	2.967818E-02	-2.931218E-03
80.00	6.282903E-02	1.986759E-02	2.644895E-02	-2.544891E-03
82.00	6.025173E-02	1.787610E-02	2.336175E-02	-2.173226E-03
84.00	5.785162E-02	1.613538E-02	2.051235E-02	-1.819845E-03
86.00	5.561242E-02	1.462955E-02	1.784503E-02	-1.484113E-03
88.00	5.352180E-02	1.334033E-02	1.534560E-02	-1.164894E-03
90.00	5.156760E-02	1.225514E-02	1.300133E-02	-8.579725E-04
92.00	4.974309E-02	1.135727E-02	1.080842E-02	-5.647594E-04
94.00	4.803936E-02	1.063184E-02	8.732618E-03	-2.846423E-04
96.00	4.644710E-02	1.006613E-02	6.798196E-03	-1.849681E-05
98.00	4.495691E-02	9.649287E-03	4.958226E-03	2.337895E-04
100.00	4.356127E-02	9.371391E-03	3.234369E-03	4.738946E-04
102.00	4.225412E-02	9.222572E-03	1.684481E-03	7.084979E-04
104.00	4.103812E-02	9.192678E-03	7.315458E-05	9.168733E-04
106.00	3.990459E-02	9.272078E-03	-1.374475E-03	1.122256E-03
108.00	3.881219E-02	9.452523E-03	-2.752547E-03	1.316707E-03
110.00	3.780823E-02	9.726514E-03	-4.054112E-03	1.501175E-03
112.00	3.686983E-02	1.008702E-02	-5.248022E-03	1.675943E-03
114.00	3.599187E-02	1.052690E-02	-6.459043E-03	1.841603E-03
116.00	3.517856E-02	1.103916E-02	-7.571289E-03	1.998868E-03
118.00	3.448408E-02	1.161823E-02	-8.629862E-03	2.144494E-03
120.00	3.386833E-02	1.225948E-02	-9.639126E-03	2.281073E-03
122.00	3.382059E-02	1.295402E-02	-1.060278E-02	2.408569E-03
124.00	3.239987E-02	1.370897E-02	-1.152419E-02	2.527406E-03
126.00	3.182388E-02	1.450558E-02	-1.240719E-02	2.637453E-03
128.00	3.129369E-02	1.534356E-02	-1.325478E-02	2.742765E-03
130.00	3.079946E-02	1.621892E-02	-1.406982E-02	2.836033E-03
132.00	3.034721E-02	1.712004E-02	-1.485576E-02	2.921183E-03
134.00	2.993226E-02	1.804995E-02	-1.561527E-02	2.995378E-03
136.00	2.955343E-02	1.900799E-02	-1.634898E-02	3.059165E-03
138.00	2.921027E-02	2.002876E-02	-1.706611E-02	3.111574E-03
140.00	2.890256E-02	2.103850E-02	-1.776434E-02	3.151352E-03
142.00	2.862948E-02	2.206315E-02	-1.844951E-02	3.176764E-03
144.00	2.839060E-02	2.309767E-02	-1.912567E-02	3.185369E-03
146.00	2.818484E-02	2.413559E-02	-1.979679E-02	3.177378E-03
148.00	2.801156E-02	2.516783E-02	-2.046663E-02	3.153171E-03
150.00	2.787082E-02	2.618313E-02	-2.113983E-02	3.069288E-03
152.00	2.775977E-02	2.716744E-02	-2.181871E-02	2.962398E-03
154.00	2.768164E-02	2.810410E-02	-2.251141E-02	2.808025E-03
156.00	2.763696E-02	2.897103E-02	-2.322488E-02	2.595791E-03
158.00	2.762818E-02	2.974157E-02	-2.396758E-02	2.314392E-03
160.00	2.765907E-02	3.038058E-02	-2.473229E-02	1.955412E-03
162.00	2.774321E-02	3.088974E-02	-2.553825E-02	1.518264E-03
164.00	2.788382E-02	3.126144E-02	-2.634379E-02	1.021959E-03
166.00	2.810183E-02	3.147244E-02	-2.727739E-02	5.180381E-04
168.00	2.842689E-02	3.164859E-02	-2.828795E-02	5.449600E-05
170.00	2.926994E-02	3.183128E-02	-2.928063E-02	-2.779812E-04
172.00	3.010275E-02	3.207088E-02	-3.023992E-02	-6.473017E-04
174.00	3.106841E-02	3.236788E-02	-3.127228E-02	-6.467487E-04
176.00	3.208838E-02	3.267922E-02	-3.219886E-02	-3.889582E-04
178.00	3.276795E-02	3.295349E-02	-3.294742E-02	-1.064981E-04
180.00	3.307672E-02	3.307672E-02	-3.307672E-02	-6.233693E-17

TABLE B21. NORMALIZED PHASE MATRIX FOR TYPE B AEROSOLS, M=1.55-0.01I, R_1=0.06μM, ν=4.5, λ=0.45μ

SCATTERING ANGLE	I1	I2	I3	I4
0.00	3.192296E+00	3.192286E+00	3.192296E+00	-3.838321E-15
.10	3.149336E+00	3.149381E+00	3.149373E+00	-2.172546E-04
.20	3.055920E+00	3.055985E+00	3.055956E+00	-8.152383E-04
.30	2.916444E+00	2.916556E+00	2.916497E+00	-1.653429E-03
.40	2.758530E+00	2.753729E+00	2.758686E+00	-2.558235E-03
.50	2.579395E+00	2.579627E+00	2.578500E+00	-3.373430E-03
.60	2.415225E+00	2.415067E+00	2.415911E+00	-4.021767E-03
.70	2.272325E+00	2.272657E+00	2.272477E+00	-4.494315E-03
.80	2.151351E+00	2.151424E+00	2.151224E+00	-4.837492E-03
.90	2.050136E+00	2.050548E+00	2.050330E+00	-5.117160E-03
1.00	1.965335E+00	1.965817E+00	1.965581E+00	-5.383573E-03
1.10	1.892369E+00	1.892819E+00	1.892564E+00	-5.639224E-03
1.20	1.822731E+00	1.828231E+00	1.827958E+00	-5.937724E-03
1.30	1.769536E+00	1.770103E+00	1.769811E+00	-6.208765E-03
1.40	1.715334E+00	1.717469E+00	1.717158E+00	-6.451566E-03
1.50	1.669217E+00	1.663776E+00	1.669448E+00	-6.696179E-03
1.60	1.625302E+00	1.626486E+00	1.626141E+00	-6.919535E-03
1.70	1.586333E+00	1.586960E+00	1.586398E+00	-7.130340E-03
1.80	1.549324E+00	1.550555E+00	1.550174E+00	-7.352147E-03
1.90	1.516097E+00	1.515749E+00	1.516354E+00	-7.372360E-03
2.00	1.484523E+00	1.485203E+00	1.484791E+00	-7.792349E-03
3.00	1.254013E+00	1.255458E+00	1.254895E+00	-9.612350E-03
4.00	1.109335E+00	1.110243E+00	1.109584E+00	-1.115190E-02
5.00	1.004710E+00	1.005722E+00	1.004888E+00	-1.240914E-02
6.00	9.236496E-01	9.244915E-01	9.235211E-01	-1.367597E-02
7.00	4.571592E-01	9.591923E-01	9.570872E-01	-1.475708E-02
8.00	8.011833E-01	8.025507E-01	8.009273E-01	-1.568311E-02
9.00	7.527153E-01	7.535632E-01	7.522264E-01	-1.634149E-02
10.00	7.093354E-01	7.105271E-01	7.091625E-01	-1.729323E-02
11.00	6.716033E-01	6.719621E-01	6.705029E-01	-1.796990E-02
12.00	6.360624E-01	6.369486E-01	6.353807E-01	-1.855401E-02
13.00	6.054571E-01	6.046098E-01	6.031574E-01	-1.906349E-02
14.00	5.757195E-01	5.747293E-01	5.733961E-01	-1.958117E-02
15.00	5.484836E-01	5.470028E-01	5.457118E-01	-1.987243E-02
16.00	5.230693E-01	5.212045E-01	5.198382E-01	-2.018242E-02
17.00	4.992536E-01	4.965658E-01	4.955569E-01	-2.043409E-02
18.00	4.769539E-01	4.733132E-01	4.726924E-01	-2.053351E-02
19.00	4.557410E-01	4.517065E-01	4.511007E-01	-2.077123E-02
20.00	4.357758E-01	4.310323E-01	4.306631E-01	-2.096817E-02
22.00	3.989119E-01	3.927239E-01	3.928547E-01	-2.088738E-02
24.00	3.656141E-01	3.572966E-01	3.584617E-01	-2.073181E-02
26.00	3.354180E-01	3.264007E-01	3.275848E-01	-2.041386E-02
28.00	3.079823E-01	2.975835E-01	2.992725E-01	-1.998138E-02
30.00	2.830274E-01	2.712585E-01	2.734495E-01	-1.944068E-02
32.00	2.603822E-01	2.471851E-01	2.498529E-01	-1.883801E-02
34.00	2.395933E-01	2.251641E-01	2.282808E-01	-1.817246E-02
36.00	2.207185E-01	2.050274E-01	2.085543E-01	-1.746375E-02
38.00	2.034975E-01	1.865240E-01	1.905152E-01	-1.674035E-02
40.00	1.877222E-01	1.698161E-01	1.740188E-01	-1.598557E-02
42.00	1.734239E-01	1.544781E-01	1.589374E-01	-1.520574E-02
44.00	1.603156E-01	1.404918E-01	1.451524E-01	-1.441079E-02
46.00	1.483393E-01	1.277402E-01	1.325494E-01	-1.360322E-02
48.00	1.373335E-01	1.161130E-01	1.210242E-01	-1.279795E-02
50.00	1.274039E-01	1.055168E-01	1.104366E-01	-1.199995E-02
52.00	1.182234E-01	9.586584E-02	1.006518E-01	-1.122317E-02
54.00	1.099230E-01	8.708791E-02	9.203783E-02	-1.047366E-02
56.00	1.022232E-01	7.911416E-02	8.397541E-02	-9.731288E-03
58.00	9.526242E-02	7.188152E-02	7.659719E-02	-9.053484E-03
60.00	8.883335E-02	6.532425E-02	6.984133E-02	-8.373065E-03
62.00	6.293954E-02	5.937823E-02	5.365394E-02	-7.709003E-03
64.00	7.753271E-02	5.398759E-02	5.798711E-02	-7.066124E-03
66.00	7.256555E-02	4.913408E-02	5.279459E-02	-6.430433E-03
68.00	6.792752E-02	4.468733E-02	4.803537E-02	-5.854552E-03
70.00	6.379103E-02	4.070435E-02	4.367107E-02	-5.308394E-03
72.00	5.981112E-02	3.712786E-02	3.966608E-02	-4.774311E-03
74.00	5.633732E-02	3.387694E-02	3.599973E-02	-4.250301E-03
76.00	5.304043E-02	3.100885E-02	3.261473E-02	-3.765674E-03
78.00	4.999909E-02	2.933852E-02	2.951323E-02	-3.232293E-03
80.00	4.712230E-02	2.604501E-02	2.666755E-02	-2.844113E-03
82.00	4.459936E-02	2.399496E-02	2.404947E-02	-2.421229E-03
84.00	4.220134E-02	2.213746E-02	2.163351E-02	-2.028376E-03
86.00	3.997889E-02	2.050491E-02	1.942031E-02	-1.636901E-03
88.00	3.731910E-02	1.901402E-02	1.732535E-02	-1.258192E-03
90.00	3.601013E-02	1.773683E-02	1.549072E-02	-9.146327E-04
92.00	3.423381E-02	1.668520E-02	1.376322E-02	-5.784356E-04
94.00	3.259732E-02	1.572044E-02	1.214983E-02	-2.503928E-04
96.00	3.107346E-02	1.483488E-02	1.066916E-02	4.095028E-05
98.00	2.965755E-02	1.419819E-02	9.301009E-03	3.298226E-04
100.00	2.834332E-02	1.361762E-02	8.035661E-03	6.034227E-04
102.00	2.712337E-02	1.313964E-02	6.864724E-03	8.703174E-04
104.00	2.598928E-02	1.275484E-02	5.780800E-03	1.121219E-03
106.00	2.493598E-02	1.245915E-02	4.773274E-03	1.358313E-03
108.00	2.395730E-02	1.226861E-02	3.836201E-03	1.581872E-03
110.00	2.304555E-02	1.212481E-02	2.962097E-03	1.795336E-03
112.00	2.220316E-02	1.207385E-02	2.144636E-03	2.001221E-03
114.00	2.142321E-02	1.209941E-02	1.379577E-03	2.200090E-03
116.00	2.070310E-02	1.216834E-02	6.631166E-04	2.390483E-03
118.00	2.003634E-02	1.230009E-02	-7.297437E-05	2.570703E-03
120.00	1.941285E-02	1.243408E-02	-6.382593E-04	2.739027E-03
122.00	1.884771E-02	1.274555E-02	-1.233596E-03	2.936336E-03
124.00	1.831836E-02	1.305166E-02	-1.798453E-03	3.043581E-03
126.00	1.783231E-02	1.341014E-02	-2.339631E-03	3.181725E-03
128.00	1.738874E-02	1.381858E-02	-2.857441E-03	3.311173E-03
130.00	1.698410E-02	1.427897E-02	-3.359860E-03	3.431794E-03
132.00	1.661813E-02	1.478788E-02	-3.849629E-03	3.543337E-03
134.00	1.628879E-02	1.534495E-02	-4.329585E-03	3.644520E-03
136.00	1.599246E-02	1.594727E-02	-4.800852E-03	3.731127E-03
138.00	1.572706E-02	1.659343E-02	-5.265875E-03	3.798340E-03
140.00	1.543318E-02	1.728440E-02	-5.731376E-03	3.843717E-03
142.00	1.529132E-02	1.801949E-02	-6.206572E-03	3.862515E-03
144.00	1.512303E-02	1.878685E-02	-6.700756E-03	3.850873E-03
146.00	1.498403E-02	1.959615E-02	-7.223007E-03	3.802254E-03
148.00	1.487773E-02	2.042852E-02	-7.782911E-03	3.706474E-03
150.00	1.490359E-02	2.125015E-02	-8.390476E-03	3.549758E-03
152.00	1.476437E-02	2.206374E-02	-9.056505E-03	3.316561E-03
154.00	1.476739E-02	2.292096E-02	-9.791571E-03	2.996228E-03
156.00	1.482824E-02	2.343580E-02	-1.061381E-02	2.544220E-03
158.00	1.496590E-02	2.404924E-02	-1.154473E-02	1.977535E-03
160.00	1.522082E-02	2.441615E-02	-1.261002E-02	1.221043E-03
162.00	1.565427E-02	2.474302E-02	-1.393459E-02	5.224320E-04
164.00	1.636131E-02	2.480061E-02	-1.534598E-02	-2.482326E-04
166.00	1.744135E-02	2.527946E-02	-1.689170E-02	-8.798200E-04
168.00	1.895476E-02	2.573658E-02	-1.882382E-02	-1.389506E-03
170.00	2.089431E-02	2.656678E-02	-2.105201E-02	-1.503739E-03
172.00	2.318430E-02	2.746874E-02	-2.351580E-02	-1.466174E-03
174.00	2.565774E-02	2.866400E-02	-2.606204E-02	-1.218051E-03
176.00	2.806453E-02	2.971739E-02	-2.842935E-02	-7.938222E-04
178.00	3.001137E-02	3.052121E-02	-3.019726E-02	-2.846371E-04
180.00	3.085570E-02	3.085570E-02	-3.085570E-02	-2.590240E-16

TABLE 322. NORMALIZED PHASE MATRIX FOR TYPE 3 AEROSOLS, M=1.55-0.01I, R_1=0.06μM, ν=4.5, λ=0.55μ

SCATTERING ANGLE	I1	I2	I3	I4
0.00	2.853944E+00	2.853944E+00	2.853944E+00	-2.668191E-15
.10	2.834157E+00	2.834179E+00	2.834173E+00	-1.306750E-04
.20	[illegible]	[illegible]	[illegible]	[illegible]
.30	2.689563E+00	2.689640E+00	2.688591E+00	-1.274728E-03
.40	[illegible]	[illegible]	[illegible]	[illegible]
.50	2.454436E+00	2.454654E+00	2.454541E+00	-2.834194E-03
.60	[illegible]	[illegible]	[illegible]	[illegible]
.70	2.207719E+00	2.208048E+00	2.207868E+00	-4.183157E-03
.80	[illegible]	[illegible]	[illegible]	[illegible]
.90	1.999328E+00	2.000314E+00	2.000181E+00	-5.015906E-03
1.00	[illegible]	[illegible]	[illegible]	[illegible]
1.10	1.843129E+00	1.843558E+00	1.843314E+00	-5.540590E-03
1.20	[illegible]	[illegible]	[illegible]	[illegible]
1.30	1.724653E+00	1.725121E+00	1.724850E+00	-6.033110E-03
1.40	[illegible]	[illegible]	[illegible]	[illegible]
1.50	1.629109E+00	1.629615E+00	1.629315E+00	-6.534873E-03
1.60	[illegible]	[illegible]	[illegible]	[illegible]
1.70	1.540431E+00	1.540978E+00	1.540643E+00	-7.004643E-03
1.80	[illegible]	[illegible]	[illegible]	[illegible]
1.90	1.479617E+00	1.480232E+00	1.479882E+00	-7.424164E-03
2.00	[illegible]	[illegible]	[illegible]	[illegible]
3.00	1.225084E+00	1.226431E+00	1.225979E+00	-9.467391E-03
4.00	[illegible]	[illegible]	[illegible]	[illegible]
5.00	9.827259E-01	9.832208E-01	9.826490E-01	-1.239140E-02
6.00	[illegible]	[illegible]	[illegible]	[illegible]
7.00	8.392542E-01	8.394366E-01	8.387619E-01	-1.467155E-02
8.00	[illegible]	[illegible]	[illegible]	[illegible]
9.00	7.376597E-01	7.374194E-01	7.366333E-01	-1.540849E-02
10.00	[illegible]	[illegible]	[illegible]	[illegible]
11.00	6.586039E-01	6.573191E-01	6.570316E-01	-1.780940E-02
12.00	[illegible]	[illegible]	[illegible]	[illegible]
13.00	5.937883E-01	5.921840E-01	5.914343E-01	-1.893112E-02
14.00	[illegible]	[illegible]	[illegible]	[illegible]
15.00	5.385447E-01	5.363987E-01	5.354431E-01	-1.934963E-02
16.00	[illegible]	[illegible]	[illegible]	[illegible]
17.00	4.904756E-01	4.872732E-01	4.865513E-01	-2.009983E-02
18.00	[illegible]	[illegible]	[illegible]	[illegible]
19.00	4.480056E-01	4.435531E-01	4.431973E-01	-2.033817E-02
20.00	[illegible]	[illegible]	[illegible]	[illegible]
22.00	3.925730E-01	3.853444E-01	3.863666E-01	-2.034611E-02
24.00	[illegible]	[illegible]	[illegible]	[illegible]
26.00	3.387477E-01	3.210663E-01	3.226507E-01	-1.908166E-02
28.00	[illegible]	[illegible]	[illegible]	[illegible]
30.00	2.794920E-01	2.671161E-01	2.697616E-01	-1.895117E-02
32.00	[illegible]	[illegible]	[illegible]	[illegible]
34.00	2.372949E-01	2.219952E-01	2.255863E-01	-1.770374E-02
36.00	[illegible]	[illegible]	[illegible]	[illegible]
38.00	2.020333E-01	1.961975E-01	1.896065E-01	-1.529532E-02
40.00	[illegible]	[illegible]	1.724425E-01	-1.555457E-02
42.00	1.726052E-01	1.525260E-01	1.576538E-01	-1.479182E-02
44.00	1.598921E-01	1.380648E-01	1.441209E-01	-1.401182E-02
46.00	1.481937E-01	1.263008E-01	1.317354E-01	-1.322203E-02
48.00	[illegible]	1.148317E-01	1.204301E-01	-1.243504E-02
50.00	1.277513E-01	1.043714E-01	1.100266E-01	-1.156797E-02
52.00	[illegible]	[illegible]	1.085300E-01	-1.092368E-02
54.00	1.106554E-01	8.617874E-02	9.183251E-02	-1.020141E-02
56.00	[illegible]	[illegible]	[illegible]	[illegible]
58.00	9.631338E-02	7.112437E-02	7.656028E-02	-8.812573E-03
60.00	[illegible]	[illegible]	[illegible]	[illegible]
62.00	8.425203E-02	5.870159E-02	6.371533E-02	-7.699344E-03
64.00	[illegible]	[illegible]	[illegible]	[illegible]
66.00	7.407227E-02	4.849535E-02	5.289894E-02	-6.282366E-03
68.00	[illegible]	[illegible]	[illegible]	[illegible]
70.00	6.545529E-02	4.015577E-02	4.377839E-02	-5.154355E-03
72.00	[illegible]	[illegible]	[illegible]	[illegible]
74.00	5.814763E-02	3.333974E-02	3.606587E-02	-4.141527E-03
76.00	[illegible]	[illegible]	[illegible]	[illegible]
78.00	5.192486E-02	2.795491E-02	2.952965E-02	-3.214400E-03
80.00	[illegible]	[illegible]	[illegible]	[illegible]
82.00	4.659976E-02	2.347747E-02	2.397269E-02	-2.367300E-03
84.00	[illegible]	[illegible]	[illegible]	[illegible]
86.00	4.203185E-02	2.001892E-02	1.923602E-02	-1.590999E-03
88.00	[illegible]	[illegible]	[illegible]	[illegible]
90.00	3.810532E-02	1.733989E-02	1.519794E-02	-8.893074E-04
92.00	[illegible]	[illegible]	[illegible]	[illegible]
94.00	3.472028E-02	1.532460E-02	1.173021E-02	-2.538332E-04
96.00	[illegible]	[illegible]	[illegible]	[illegible]
98.00	3.181433E-02	1.386997E-02	8.758896E-03	3.280290E-04
100.00	[illegible]	[illegible]	[illegible]	[illegible]
102.00	2.929470E-02	1.289286E-02	6.184770E-03	8.654940E-04
104.00	[illegible]	[illegible]	[illegible]	[illegible]
106.00	2.711586E-02	1.231478E-02	3.954174E-03	1.323691E-03
108.00	[illegible]	[illegible]	[illegible]	[illegible]
110.00	2.522938E-02	1.200658E-02	2.015696E-03	1.755189E-03
112.00	[illegible]	[illegible]	[illegible]	[illegible]
114.00	2.359370E-02	1.216537E-02	3.282589E-04	2.145151E-03
116.00	[illegible]	[illegible]	[illegible]	[illegible]
118.00	2.219345E-02	1.251130E-02	-1.192349E-03	2.497339E-03
120.00	[illegible]	[illegible]	[illegible]	[illegible]
122.00	2.097790E-02	1.309476E-02	-2.529892E-03	2.819275E-03
124.00	[illegible]	[illegible]	[illegible]	[illegible]
126.00	1.995297E-02	1.389370E-02	-3.742239E-03	3.104765E-03
128.00	[illegible]	[illegible]	[illegible]	[illegible]
130.00	1.908519E-02	1.489484E-02	-4.854239E-03	3.347157E-03
132.00	[illegible]	[illegible]	[illegible]	[illegible]
134.00	1.836226E-02	1.603038E-02	-5.901753E-03	3.545394E-03
136.00	[illegible]	[illegible]	[illegible]	[illegible]
138.00	1.777951E-02	1.747039E-02	-6.916676E-03	3.691280E-03
140.00	[illegible]	[illegible]	[illegible]	[illegible]
142.00	1.733037E-02	1.901836E-02	-7.935327E-03	3.759240E-03
144.00	[illegible]	[illegible]	[illegible]	[illegible]
146.00	1.708172E-02	2.070327E-02	-9.012411E-03	3.702512E-03
148.00	[illegible]	[illegible]	[illegible]	[illegible]
150.00	1.679935E-02	2.245306E-02	-1.021797E-02	3.452985E-03
152.00	[illegible]	[illegible]	[illegible]	[illegible]
154.00	1.674925E-02	2.411070E-02	-1.164422E-02	2.903209E-03
156.00	[illegible]	[illegible]	[illegible]	[illegible]
158.00	1.691450E-02	2.543632E-02	-1.342660E-02	1.922559E-03
160.00	[illegible]	[illegible]	[illegible]	[illegible]
162.00	1.754718E-02	2.622410E-02	-1.572281E-02	5.095173E-04
164.00	[illegible]	[illegible]	[illegible]	[illegible]
166.00	1.927243E-02	2.690400E-02	-1.872368E-02	-8.573313E-04
168.00	[illegible]	[illegible]	[illegible]	[illegible]
170.00	2.264953E-02	2.805156E-02	-2.276763E-02	-1.469977E-03
172.00	[illegible]	[illegible]	[illegible]	[illegible]
174.00	2.727190E-02	3.010547E-02	-2.762821E-02	-1.191329E-03
176.00	2.959181E-02	3.114871E-02	-2.992256E-02	-7.753303E-04
178.00	3.146593E-02	3.194690E-02	-3.163915E-02	-2.795940E-04
180.00	3.227866E-02	3.227866E-02	-3.227866E-02	-2.659706E-16

TABLE 5.3. NORMALIZED PHASE MATRIX FOR TYPE B AEROSOLS, M=1.55-0.01I, R_1=0.06μM, ν=4.5, λ=0.70μ

SCATTERING ANGLE	I1	I2	I3	I4
0.00	2.539938E+00	2.539938E+00	2.539938E+00	-2.853865E-15
.10	2.529053E+00	2.529072E+00	2.529068E+00	-1.899366E-04
.20	2.497191E+00	2.497218E+00	2.497200E+00	-4.281421E-04
.30	2.446639E+00	2.446518E+00	2.446479E+00	-9.217170E-04
.40	2.380125E+00	2.380258E+00	2.380198E+00	-1.541928E-03
.50	2.302301E+00	2.302493E+00	2.302395E+00	-2.231421E-03
.60	2.217349E+00	2.217681E+00	2.217472E+00	-2.933986E-03
.70	2.129528E+00	2.129937E+00	2.129675E+00	-3.600459E-03
.80	2.042532E+00	2.042951E+00	2.042768E+00	-4.198681E-03
.90	1.959503E+00	1.959911E+00	1.959594E+00	-4.704293E-03
1.00	1.882322E+00	1.882759E+00	1.882519E+00	-5.121155E-03
1.10	1.812133E+00	1.812603E+00	1.812345E+00	-5.430040E-03
1.20	1.749241E+00	1.749726E+00	1.749453E+00	-5.733984E-03
1.30	1.693273E+00	1.693777E+00	1.693489E+00	-5.970071E-03
1.40	1.643459E+00	1.643989E+00	1.643687E+00	-6.196363E-03
1.50	1.598870E+00	1.599405E+00	1.599092E+00	-6.337302E-03
1.60	1.558316E+00	1.558962E+00	1.558741E+00	-6.612259E-03
1.70	1.521555E+00	1.522133E+00	1.521794E+00	-6.832744E-03
1.80	1.487354E+00	1.487968E+00	1.487596E+00	-7.034846E-03
1.90	1.455432E+00	1.456052E+00	1.455687E+00	-7.274758E-03
2.00	1.425535E+00	1.426149E+00	1.425771E+00	-7.455841E-03
3.00	1.206401E+00	1.207186E+00	1.206610E+00	-9.299237E-03
4.00	1.067631E+00	1.068425E+00	1.067848E+00	-1.092504E-02
5.00	9.677593E-01	9.684719E-01	9.677962E-01	-1.215196E-02
6.00	8.981294E-01	8.987726E-01	8.980123E-01	-1.332207E-02
7.00	8.267831E-01	8.273062E-01	8.264795E-01	-1.436314E-02
8.00	7.722873E-01	7.736313E-01	7.727315E-01	-1.528187E-02
9.00	7.269438E-01	7.270632E-01	7.261098E-01	-1.610598E-02
10.00	6.868146E-01	6.858693E-01	6.848723E-01	-1.682573E-02
11.00	6.493207E-01	6.484731E-01	6.478451E-01	-1.745513E-02
12.00	6.160341E-01	6.152438E-01	6.142026E-01	-1.880032E-02
13.00	5.855530E-01	5.843731E-01	5.833630E-01	-1.846396E-02
14.00	5.574354E-01	5.558112E-01	5.548244E-01	-1.886868E-02
15.00	5.313330E-01	5.292131E-01	5.283035E-01	-1.920295E-02
16.00	5.069821E-01	5.043128E-01	5.035161E-01	-1.947325E-02
17.00	4.841630E-01	4.808980E-01	4.802525E-01	-1.968437E-02
18.00	4.627877E-01	4.589837E-01	4.583434E-01	-1.984388E-02
19.00	4.424732E-01	4.378944E-01	4.376501E-01	-1.994656E-02
20.00	4.233442E-01	4.188688E-01	4.180573E-01	-2.000468E-02
22.00	3.880294E-01	3.812679E-01	3.810037E-01	-1.998705E-02
24.00	3.561403E-01	3.478641E-01	3.489792E-01	-1.981225E-02
26.00	3.272530E-01	3.174352E-01	3.191480E-01	-1.951164E-02
28.00	3.010049E-01	2.896579E-01	2.919425E-01	-1.910827E-02
30.00	2.771199E-01	2.642690E-01	2.671103E-01	-1.851350E-02
32.00	2.553513E-01	2.413418E-01	2.444822E-01	-1.808852E-02
34.00	2.355106E-01	2.197774E-01	2.236304E-01	-1.742741E-02
36.00	2.174833E-01	2.003076E-01	2.046102E-01	-1.674502E-02
38.00	2.008752E-01	1.824093E-01	1.871985E-01	-1.602397E-02
40.00	1.857412E-01	1.661801E-01	1.712610E-01	-1.527036E-02
42.00	1.720120E-01	1.512899E-01	1.566745E-01	-1.451935E-02
44.00	1.594371E-01	1.376762E-01	1.433224E-01	-1.375470E-02
46.00	1.479542E-01	1.252449E-01	1.310961E-01	-1.299112E-02
48.00	1.374637E-01	1.138445E-01	1.198078E-01	-1.223208E-02
50.00	1.278726E-01	1.035330E-01	1.096408E-01	-1.148400E-02
52.00	1.190834E-01	9.409538E-02	1.002409E-01	-1.074881E-02
54.00	1.110492E-01	8.549751E-02	9.162334E-02	-1.002932E-02
56.00	1.036728E-01	7.766708E-02	8.371811E-02	-9.322408E-03
58.00	9.692225E-02	7.054276E-02	7.646776E-02	-8.646355E-03
60.00	9.073216E-02	6.406626E-02	6.981381E-02	-7.989593E-03
62.00	8.505333E-02	5.810796E-02	6.370482E-02	-7.357841E-03
64.00	7.984230E-02	5.285626E-02	5.809276E-02	-6.750075E-03
66.00	7.504932E-02	4.802702E-02	5.293378E-02	-6.156254E-03
68.00	7.063318E-02	4.365718E-02	4.818814E-02	-5.586314E-03
70.00	6.656292E-02	3.970863E-02	4.391956E-02	-5.070515E-03
72.00	6.280848E-02	3.614681E-02	3.870492E-02	-4.557884E-03
74.00	5.934536E-02	3.293797E-02	3.608397E-02	-4.067225E-03
76.00	5.615232E-02	3.005354E-02	3.266818E-02	-3.538855E-03
78.00	5.320179E-02	2.745973E-02	2.950071E-02	-3.149947E-03
80.00	5.047734E-02	2.516870E-02	2.658458E-02	-2.722469E-03
82.00	4.795536E-02	2.310701E-02	2.389103E-02	-2.315416E-03
84.00	4.561578E-02	2.128612E-02	2.139905E-02	-1.929808E-03
86.00	4.344232E-02	1.957849E-02	1.909342E-02	-1.350240E-03
88.00	4.142533E-02	1.824641E-02	1.695382E-02	-1.207875E-03
90.00	3.955439E-02	1.703351E-02	1.497293E-02	-8.713909E-04
92.00	3.781868E-02	1.596636E-02	1.313230E-02	-5.300807E-04
94.00	3.621075E-02	1.505371E-02	1.142246E-02	-2.460306E-04
96.00	3.471630E-02	1.428537E-02	9.834032E-03	-4.356556E-05
98.00	3.332544E-02	1.364977E-02	8.356524E-03	3.172312E-04
100.00	3.202082E-02	1.313612E-02	6.970866E-03	5.817342E-04
102.00	3.082016E-02	1.273128E-02	5.695362E-03	8.323508E-04
104.00	2.960384E-02	1.242882E-02	4.485832E-03	1.072288E-03
106.00	2.864351E-02	1.222345E-02	3.374364E-03	1.301587E-03
108.00	2.767132E-02	1.210634E-02	2.325828E-03	1.520746E-03
110.00	2.676719E-02	1.207397E-02	1.342079E-03	1.729110E-03
112.00	2.592743E-02	1.212186E-02	4.196316E-04	1.926380E-03
114.00	2.514513E-02	1.224213E-02	-4.495256E-04	2.112774E-03
116.00	2.441848E-02	1.241148E-02	-1.267009E-03	2.286530E-03
118.00	2.374116E-02	1.269447E-02	-2.042573E-03	2.450194E-03
120.00	2.311263E-02	1.300787E-02	-2.776130E-03	2.619247E-03
122.00	2.253115E-02	1.336682E-02	-3.471822E-03	2.772301E-03
124.00	2.199421E-02	1.378220E-02	-4.133097E-03	2.916759E-03
126.00	2.149949E-02	1.427148E-02	-4.764124E-03	3.052822E-03
128.00	2.104418E-02	1.480140E-02	-5.360381E-03	3.177430E-03
130.00	2.062659E-02	1.537973E-02	-5.953340E-03	3.292554E-03
132.00	2.024631E-02	1.600402E-02	-6.520118E-03	3.396332E-03
134.00	1.990222E-02	1.667624E-02	-7.072789E-03	3.489330E-03
136.00	1.959353E-02	1.739308E-02	-7.615137E-03	3.567711E-03
138.00	1.931858E-02	1.815395E-02	-8.151125E-03	3.629535E-03
140.00	1.907527E-02	1.895639E-02	-8.685888E-03	3.672041E-03
142.00	1.886247E-02	1.979641E-02	-9.225589E-03	3.691505E-03
144.00	1.867907E-02	2.066866E-02	-9.776476E-03	3.682564E-03
146.00	1.852530E-02	2.156617E-02	-1.034773E-02	3.637746E-03
148.00	1.840222E-02	2.247760E-02	-1.094740E-02	3.546535E-03
150.00	1.831133E-02	2.338715E-02	-1.158660E-02	3.395525E-03
152.00	1.825716E-02	2.427406E-02	-1.227816E-02	3.170856E-03
154.00	1.824606E-02	2.511179E-02	-1.303663E-02	2.853908E-03
156.00	1.829955E-02	2.586753E-02	-1.387009E-02	2.431892E-03
158.00	1.840793E-02	2.650662E-02	-1.482497E-02	1.391317E-03
160.00	1.863677E-02	2.700160E-02	-1.589677E-02	1.230009E-03
162.00	1.903717E-02	2.735653E-02	-1.711493E-02	5.851550E-04
164.00	1.960947E-02	2.764320E-02	-1.850275E-02	-2.342816E-04
166.00	2.072098E-02	2.799291E-02	-2.010491E-02	-8.354396E-04
168.00	2.216082E-02	2.852690E-02	-2.187242E-02	-1.230825E-03
170.00	2.401343E-02	2.929406E-02	-2.411593E-02	-1.439293E-03
172.00	2.640957E-02	3.026944E-02	-2.647071E-02	-1.404760E-03
174.00	2.856307E-02	3.135668E-02	-2.891928E-02	-1.165485E-03
176.00	3.095730E-02	3.239450E-02	-3.118659E-02	-7.596265E-04
178.00	3.271133E-02	3.318597E-02	-3.200263E-02	-2.737305E-04
180.00	3.351441E-02	3.351441E-02	-3.351441E-02	-2.439265E-15

TABLE B24. NORMALIZED PHASE MATRIX FOR TYPE B AEROSOLS, M=1.55-0.01I, R_1=0.06μM, v=4.5, λ=1.60μ

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.790724E+00	1.790724E+00	1.790724E+00	-1.529186E-15
.10	1.789227E+00	1.789231E+00	1.789229E+00	-3.254353E-05
.20	1.786753E+00	1.786775E+00	1.786767E+00	-1.236332E-04
.30	1.777378E+00	1.777413E+00	1.777395E+00	-2.008209E-04
.40	1.767183E+00	1.767244E+00	1.767213E+00	-5.872571E-04
.50	1.754330E+00	1.754402E+00	1.754355E+00	-7.803193E-04
.60	1.738313E+00	1.738053E+00	1.738986E+00	-1.182535E-03
.70	1.721214E+00	1.721392E+00	1.721302E+00	-1.457300E-03
.80	1.701613E+00	1.701638E+00	1.701523E+00	[illegible]
.90	1.679755E+00	1.699031E+00	1.679959E+00	-2.297937E-03
1.00	1.656434E+00	1.656826E+00	1.656654E+00	-2.740041E-03
1.10	1.631835E+00	1.632200E+00	1.632090E+00	-3.211500E-03
1.20	1.606226E+00	1.606663E+00	1.606433E+00	-3.580155E-03
1.30	1.579744E+00	1.580237E+00	1.579977E+00	-4.169174E-03
1.40	1.552214E+00	1.553269E+00	1.552370E+00	-4.610129E-03
1.50	1.525391E+00	1.525976E+00	1.525657E+00	-5.050130E-03
1.60	1.497374E+00	1.499617E+00	1.498268E+00	-5.480041E-03
1.70	1.470705E+00	1.471392E+00	1.471016E+00	-5.897370E-03
1.80	1.443756E+00	1.444433E+00	1.444091E+00	-6.281396E-03
1.90	1.417321E+00	1.418004E+00	1.417650E+00	-6.660517E-03
2.00	1.391513E+00	1.392309E+00	1.391959E+00	-6.972046E-03
3.00	1.182473E+00	1.183414E+00	1.182019E+00	-9.891329E-03
4.00	1.049234E+00	1.050212E+00	1.049526E+00	-1.032279E-02
5.00	9.519477E-01	9.529932E-01	9.521133E-01	-1.199001E-02
6.00	8.759331E-01	8.768611E-01	8.760058E-01	-1.302198E-02
7.00	8.140419E-01	8.147707E-01	8.130480E-01	-1.406325E-02
8.00	7.615333E-01	7.628782E-01	7.611084E-01	-1.437281E-02
9.00	7.161317E-01	7.164263E-01	7.154305E-01	-1.579037E-02
10.00	6.759556E-01	6.753636E-01	6.749213E-01	-1.652132E-02
11.00	6.399974E-01	6.395449E-01	6.395979E-01	-1.716064E-02
12.00	6.073431E-01	6.065935E-01	6.055622E-01	-1.771579E-02
13.00	5.774640E-01	5.762632E-01	5.752733E-01	-1.819040E-02
14.00	5.498893E-01	5.481920E-01	5.472787E-01	-1.858222E-02
15.00	5.242818E-01	5.220458E-01	5.212232E-01	-1.892031E-02
16.00	5.003040E-01	4.973649E-01	4.960755E-01	-1.918380E-02
17.00	4.779947E-01	4.745453E-01	4.740178E-01	-1.939505E-02
18.00	4.568131E-01	4.528190E-01	4.524077E-01	-1.953128E-02
19.00	4.370343E-01	4.322530E-01	4.321447E-01	-1.962525E-02
20.00	4.182433E-01	4.127427E-01	4.128861E-01	-1.967251E-02
22.00	3.835315E-01	3.765577E-01	3.772430E-01	-1.954232E-02
24.00	3.522828E-01	3.436064E-01	3.446694E-01	-1.946106E-02
26.00	3.230139E-01	3.137453E-01	3.156220E-01	-1.916873E-02
28.00	2.988182E-01	2.863887E-01	2.888628E-01	-1.876900E-02
30.00	2.745487E-01	2.617685E-01	2.644204E-01	-1.828193E-02
32.00	2.531658E-01	2.384673E-01	2.420679E-01	-1.772280E-02
34.00	2.336737E-01	2.174993E-01	2.216124E-01	-1.710302E-02
36.00	2.158468E-01	1.983817E-01	2.028865E-01	-1.643047E-02
39.06	1.996317E-01	1.807270E-01	1.857393E-01	-1.573703E-02
40.00	1.848316E-01	1.646416E-01	1.700346E-01	-1.500852E-02
42.00	1.712399E-01	1.499246E-01	1.556499E-01	-1.426411E-02
44.00	1.589432E-01	1.364661E-01	1.424730E-01	-1.351232E-02
46.00	1.476537E-01	1.241659E-01	1.304007E-01	-1.276015E-02
48.00	1.373335E-01	1.129317E-01	1.193380E-01	-1.201340E-02
50.00	1.279051E-01	1.026779E-01	1.091975E-01	-1.127706E-02
52.00	1.192732E-01	9.332422E-02	9.949884E-02	-1.055420E-02
54.00	1.113739E-01	8.479787E-02	9.136034E-02	-9.867931E-03
56.00	1.041330E-01	7.702946E-02	8.353830E-02	-9.168113E-03
58.00	9.759123E-02	6.995743E-02	7.634794E-02	-8.494902E-03
60.00	9.141611E-02	6.352627E-02	6.974162E-02	-7.850163E-03
62.00	8.582923E-02	5.769132E-02	6.366860E-02	-7.229594E-03
64.00	8.069618E-02	5.237281E-02	5.881192E-02	-6.632943E-03
66.00	7.597633E-02	4.757053E-02	5.233870E-02	-6.059122E-03
68.00	7.163322E-02	4.321707E-02	4.820044E-02	-5.509015E-03
70.00	6.763234E-02	3.929260E-02	4.393250E-02	-4.990241E-03
72.00	6.394382E-02	3.573131E-02	3.888322E-02	-4.476474E-03
74.00	6.053950E-02	3.253370E-02	3.600352E-02	-3.993374E-03
76.00	5.738532E-02	2.966185E-02	3.264672E-02	-3.533726E-03
79.00	5.449307E-02	2.709935E-02	2.946039E-02	-3.035051E-03
80.00	5.180372E-02	2.470287E-02	2.602632E-02	-2.676127E-03
82.00	4.931191E-02	2.274772E-02	2.300060E-02	-2.275900E-03
84.00	4.700634E-02	2.081617E-02	2.127380E-02	-1.834223E-03
86.00	4.486919E-02	1.933969E-02	1.892959E-02	-1.530569E-03
88.00	4.288643E-02	1.794225E-02	1.675281E-02	-1.184740E-03
90.00	4.104535E-02	1.672059E-02	1.472927E-02	-9.532953E-04
92.00	3.933476E-02	1.568420E-02	1.284606E-02	-5.414580E-04
94.00	3.774478E-02	1.473599E-02	1.109160E-02	-2.424107E-04
96.00	3.626638E-02	1.405221E-02	9.455490E-03	-4.253037E-05
98.00	3.489117E-02	1.344221E-02	7.920347E-03	3.143779E-04
100.00	3.361143E-02	1.296638E-02	6.581646E-03	5.231168E-04
107.00	3.242025E-02	1 38550E-02	5.165099E-03	8.179548E-04
104.00	3.131136E-02	1.237163E-02	3.916700E-03	1.058801E-03
105.00	3.027833E-02	1.215672E-02	2.744885E-03	1.278374E-03
108.00	2.932774E-02	1.204405E-02	1.642024E-03	1.492280E-03
110.00	2.842235E-02	1.203755E-02	6.075270E-04	1.695400E-03
112.00	2.758983E-02	1.212158E-02	-3.676169E-04	1.888912E-03
114.00	2.681339E-02	1.236056E-02	-1.287592E-03	2.073316E-03
116.00	2.608372E-02	1.259083E-02	-2.157066E-03	2.249222E-03
118.00	2.542257E-02	1.290509E-02	-2.980392E-03	2.415084E-03
120.00	2.480172E-02	1.327288E-02	-3.761777E-03	2.574197E-03
122.00	2.422575E-02	1.370002E-02	-4.505133E-03	2.723909E-03
124.00	2.369613E-02	1.418376E-02	-5.214522E-03	2.864748E-03
126.00	2.320430E-02	1.472114E-02	-5.893499E-03	2.996333E-03
128.00	2.276304E-02	1.530904E-02	-6.545306E-03	3.120822E-03
130.00	2.233930E-02	1.594673E-02	-7.173576E-03	3.235135E-03
132.00	2.196313E-02	1.663126E-02	-7.781690E-03	3.336172E-03
134.00	2.161643E-02	1.736150E-02	-8.373703E-03	3.427342E-03
136.00	2.130633E-02	1.813600E-02	-8.953872E-03	3.504324E-03
130.00	2.102393E-02	1.895275E-02	-9.526493E-03	3.555398E-03
140.00	2.078702E-02	1.980911E-02	-1.009643E-02	3.600400E-03
142.00	2.056032E-02	2.070178E-02	-1.066900E-02	3.627526E-03
144.00	2.039504E-02	2.162571E-02	-1.125071E-02	3.618634E-03
146.00	2.023242E-02	2.257324E-02	-1.184943E-02	3.574171E-03
148.00	2.011002E-02	2.353312E-02	-1.247467E-02	3.484352E-03
150.00	2.002123E-02	2.449956E-02	-1.313730E-02	3.336534E-03
152.00	1.996437E-02	2.543156E-02	-1.385042E-02	3.115441E-03
154.00	1.995100E-02	2.630190E-02	-1.462815E-02	2.804349E-03
156.00	1.999803E-02	2.707700E-02	-1.548711E-02	2.347607E-03
159.00	2.010154E-02	2.777300E-02	-1.644584E-02	1.855373E-03
160.00	2.032442E-02	2.830341E-02	-1.752394E-02	1.212409E-03
162.00	2.071999E-02	2.869190E-02	-1.974033E-02	4.976818E-04
164.00	2.137263E-02	2.901880E-02	-2.011035E-02	-3.135532E-04
166.00	2.237947E-02	2.939191E-02	-2.170347E-02	-9.155315E-04
168.00	2.379225E-02	2.995074E-02	-2.348037E-02	-1.220686E-03
170.00	2.560760E-02	3.073407E-02	-2.566557E-02	-1.405173E-03
172.00	2.774071E-02	3.171484E-02	-2.790932E-02	-1.372711E-03
174.00	3.006601E-02	3.279716E-02	-3.040525E-02	-1.160907E-03
176.00	3.231791E-02	3.392461E-02	-3.263992E-02	-7.439947E-04
178.00	3.413831E-02	3.460486E-02	-3.430912E-02	-2.699593E-04
180.00	3.492927E-02	3.492927E-02	-3.492927E-02	-2.325332E-15

TABLE B25. NORMALIZED PHASE MATRIX FOR TYPE B - AOSOLS, M=1.55-0.01I, R_1=0.06μM, ν=5.0, λ=0.45μ

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.190000E+00	1.190000E+00	1.190000E+00	[illegible]
.10	1.148212E+00	1.146214E+00	1.146213E+00	-3.458235E-05
.20	1.139222E+00	1.139231E+00	1.139220E+00	[illegible]
.30	1.119607E+00	1.119625E+00	1.119616E+00	-2.423574E-04
.40	[illegible]	[illegible]	[illegible]	[illegible]
.50	1.076899E+00	1.076939E+00	1.076918E+00	-5.375333E-04
.60	[illegible]	[illegible]	[illegible]	[illegible]
.70	1.036667E+00	1.035129E+00	1.036896E+00	-9.072241E-04
.80	[illegible]	[illegible]	[illegible]	[illegible]
.90	1.002677E+00	1.002750E+00	1.002724E+00	-1.043831E-03
1.00	[illegible]	[illegible]	[illegible]	[illegible]
1.10	9.757594E-01	9.755579E-01	9.758039E-01	-1.275382E-03
1.20	[illegible]	[illegible]	[illegible]	[illegible]
1.30	9.527954E-01	9.523110E-01	9.520464E-01	-1.521011E-03
1.40	9.423821E-01	9.421099E-01	9.424399E-01	[illegible]
1.50	9.329903E-01	9.327211E-01	9.326485E-01	-1.766068E-03
1.60	9.233020E-01	9.237982E-01	9.234209E-01	[illegible]
1.70	9.146319E-01	9.147759E-01	9.146920E-01	-1.995975E-03
1.80	[illegible]	[illegible]	[illegible]	[illegible]
1.90	8.944819E-01	8.905570E-01	8.956846E-01	-2.235015E-03
2.00	[illegible]	[illegible]	[illegible]	[illegible]
3.00	8.202306E-01	8.204131E-01	8.202073E-01	-3.552361E-03
4.00	[illegible]	[illegible]	[illegible]	[illegible]
5.00	7.407955E-01	7.408071E-01	7.406826E-01	-5.065112E-03
6.00	[illegible]	[illegible]	[illegible]	[illegible]
7.00	6.755960E-01	6.751057E-01	6.751395E-01	-8.021015E-03
8.00	[illegible]	[illegible]	[illegible]	[illegible]
9.00	6.215567E-01	6.204730E-01	6.205790E-01	-9.574322E-03
10.00	[illegible]	[illegible]	[illegible]	[illegible]
11.00	5.744419E-01	5.724460E-01	5.727023E-01	-1.165967E-02
12.00	[illegible]	[illegible]	[illegible]	[illegible]
13.00	5.322106E-01	5.298814E-01	5.297367E-01	-1.312294E-02
14.00	[illegible]	[illegible]	[illegible]	[illegible]
15.00	4.937733E-01	4.992779E-01	4.907940E-01	-1.442002E-02
16.00	[illegible]	[illegible]	[illegible]	[illegible]
17.00	4.584383E-01	4.523099E-01	4.539939E-01	-1.542061E-02
18.00	[illegible]	[illegible]	[illegible]	[illegible]
19.00	4.257055E-01	4.190210E-01	4.202523E-01	-1.619132E-02
20.00	[illegible]	[illegible]	[illegible]	[illegible]
22.00	3.912211E-01	3.786669E-01	3.739730E-01	-1.699518E-02
24.00	[illegible]	[illegible]	[illegible]	[illegible]
26.00	3.290551E-01	3.145953E-01	3.194313E-01	-1.745710E-02
28.00	[illegible]	[illegible]	[illegible]	[illegible]
30.00	2.841660E-01	2.659301E-01	2.721410E-01	-1.735420E-02
32.00	[illegible]	[illegible]	[illegible]	[illegible]
34.00	2.450533E-01	2.235499E-01	2.312757E-01	-1.686521E-02
36.00	[illegible]	[illegible]	[illegible]	[illegible]
38.00	2.127104E-01	1.973763E-01	1.968967E-01	-1.593997E-02
40.00	[illegible]	[illegible]	[illegible]	[illegible]
42.00	1.845970E-01	1.563730E-01	1.659244E-01	-1.484535E-02
44.00	[illegible]	[illegible]	[illegible]	[illegible]
46.00	1.630419E-01	1.380291E-01	1.481281E-01	-1.360576E-02
48.00	1.500206E-01	1.184570E-01	1.286673E-01	-1.296110E-02
50.00	1.402312E-01	1.077540E-01	1.100074E-01	-1.230157E-02
52.00	[illegible]	[illegible]	[illegible]	[illegible]
54.00	1.220328E-01	9.481750E-02	9.929385E-02	-1.097191E-02
56.00	[illegible]	[illegible]	[illegible]	[illegible]
58.00	1.079094E-01	7.334261E-02	8.327526E-02	-9.654701E-03

SCATTERING ANGLE	I1	I2	I3	I4
60.00	[illegible]	[illegible]	[illegible]	[illegible]
62.00	9.530464E-02	6.029813E-02	6.962127E-02	-4.277213E-03
64.00	[illegible]	[illegible]	[illegible]	-7.759947E-03
66.00	8.443559E-02	4.950460E-02	5.797417E-02	-7.158590E-03
68.00	7.959097E-02	[illegible]	[illegible]	-6.574737E-03
70.00	7.509965E-02	4.063709E-02	4.409237E-02	-6.007537E-03
72.00	[illegible]	[illegible]	[illegible]	[illegible]
74.00	6.706286E-02	3.340997E-02	3.954049E-02	-4.327052E-03
76.00	6.346993E-02	[illegible]	[illegible]	[illegible]
78.00	6.013019E-02	2.757691E-02	3.227990E-02	-3.572601E-03
80.00	[illegible]	[illegible]	[illegible]	[illegible]
82.00	5.413104E-02	2.292912E-02	2.606113E-02	-2.594314E-03
84.00	[illegible]	[illegible]	[illegible]	[illegible]
86.00	4.892919E-02	1.929552E-02	2.072910E-02	-2.135625E-03
88.00	[illegible]	[illegible]	[illegible]	-1.739717E-03
90.00	4.440009E-02	1.647233E-02	1.514005E-02	-1.356678E-03
92.00	4.237318E-02	1.537379E-02	1.410327E-02	-9.707019E-04
94.00	4.047460E-02	1.442072E-02	1.220561E-02	-5.403054E-04
96.00	[illegible]	[illegible]	[illegible]	[illegible]
98.00	3.704691E-02	1.293779E-02	8.004940E-03	1.640052E-05
100.00	[illegible]	[illegible]	[illegible]	[illegible]
102.00	3.405398E-02	1.201030E-02	5.061500E-03	5.970070E-04
104.00	3.270243E-02	[illegible]	[illegible]	[illegible]
106.00	3.143941E-02	1.150111E-02	3.304429E-03	1.127430E-03
108.00	[illegible]	[illegible]	[illegible]	[illegible]
110.00	2.915768E-02	1.135254E-02	1.072977E-03	1.602168E-03
112.00	[illegible]	[illegible]	[illegible]	[illegible]
114.00	2.716056E-02	1.153949E-02	-8.059211E-04	2.022302E-03
116.00	2.627234E-02	1.173104E-02	[illegible]	[illegible]
118.00	2.543632E-02	1.198611E-02	-2.619304E-03	2.308595E-03
120.00	[illegible]	[illegible]	[illegible]	[illegible]
122.00	2.393177E-02	1.266499E-02	-4.160232E-03	2.702212E-03
124.00	[illegible]	[illegible]	[illegible]	[illegible]
126.00	2.263270E-02	1.354502E-02	-5.565516E-03	2.962174E-03
128.00	[illegible]	[illegible]	[illegible]	[illegible]
130.00	2.151929E-02	1.459910E-02	-6.854929E-03	3.163306E-03
132.00	[illegible]	[illegible]	[illegible]	[illegible]
134.00	2.057670E-02	1.580167E-02	-8.061049E-03	3.298907E-03
136.00	[illegible]	[illegible]	[illegible]	[illegible]
138.00	1.970722E-02	1.713100E-02	-9.210599E-03	3.357546E-03
140.00	[illegible]	[illegible]	[illegible]	[illegible]
142.00	1.914079E-02	1.855469E-02	-1.036215E-02	3.319236E-03
144.00	[illegible]	[illegible]	[illegible]	[illegible]
146.00	1.865526E-02	2.002062E-02	-1.153393E-02	3.153128E-03
148.00	[illegible]	[illegible]	[illegible]	[illegible]
150.00	1.830027E-02	2.147099E-02	-1.270354E-02	2.811780E-03
152.00	[illegible]	[illegible]	[illegible]	[illegible]
154.00	1.813030E-02	2.278749E-02	-1.417310E-02	2.235205E-03
156.00	[illegible]	[illegible]	[illegible]	[illegible]
158.00	1.819414E-02	2.380441E-02	-1.577477E-02	1.306749E-03
160.00	[illegible]	[illegible]	[illegible]	[illegible]
162.00	1.965500E-02	2.444583E-02	-1.767073E-02	3.165190E-04
164.00	1.919847E-02	2.455105E-02	-1.875713E-02	[illegible]
166.00	1.995432E-02	2.494662E-02	-1.995064E-02	-6.220052E-04
168.00	[illegible]	[illegible]	[illegible]	[illegible]
170.00	2.227647E-02	2.593054E-02	-2.274565E-02	-1.002512E-03
172.00	[illegible]	[illegible]	[illegible]	[illegible]
174.00	2.533731E-02	2.707824E-02	-2.578379E-02	-7.366545E-04
176.00	[illegible]	[illegible]	[illegible]	[illegible]
178.00	2.792946E-02	2.910910E-02	-2.804025E-02	-1.424511E-04
180.00	2.937760E-02	2.937760E-02	-2.937760E-02	-1.071652E-17

TABLE 326. NORMALIZED PHASE MATRIX FOR TYPE 3 AEROSOLS, M=1.55-0.01I, R_1=0.04μM, ν=5.0, λ=0.55μ

SCATTERING ANGLE	I1	I2	I3	I4
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
.10	1.070977E+00	1.075979E+00	1.070979E+00	-2.414618E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
.30	1.060331E+00	1.060347E+00	1.060339E+00	-1.992567E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
.50	1.029959E+00	1.029593E+00	1.029573E+00	-4.714919E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
.70	9.954729E-01	9.955323E-01	9.955009E-01	-7.510045E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
.90	9.644213E-01	9.645004E-01	9.644979E-01	-9.577790E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1.10	9.304181E-01	9.305140E-01	9.304615E-01	-1.222406E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1.30	9.169002E-01	9.166997E-01	9.166376E-01	-1.447165E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1.50	8.979052E-01	8.976311E-01	8.975595E-01	-1.677490E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1.70	8.003591E-01	8.004977E-01	8.004171E-01	-1.907002E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1.90	8.640251E-01	8.643741E-01	8.640054E-01	-2.135490E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3.00	7.970066E-01	7.980519E-01	7.979222E-01	-3.304232E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5.00	7.143070E-01	7.143049E-01	7.142726E-01	-5.501692E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7.00	6.521219E-01	6.516004E-01	6.516696E-01	-7.629627E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9.00	6.005054E-01	5.993799E-01	5.993276E-01	-9.492779E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11.00	5.554963E-01	5.534226E-01	5.530290E-01	-1.114630E-02
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13.00	5.151953E-01	5.119902E-01	5.126910E-01	-1.257090E-02
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15.00	4.704210E-01	4.737399E-01	4.749602E-01	-1.375932E-02
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17.00	4.440002E-01	4.393617E-01	4.401500E-01	-1.471234E-02
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19.00	4.134612E-01	4.053010E-01	4.070365E-01	-1.546433E-02
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22.00	3.700750E-01	3.599079E-01	3.634944E-01	-1.622576E-02
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26.00	3.210073E-01	3.059803E-01	3.111023E-01	-1.660254E-02
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30.00	2.700799E-01	2.509971E-01	2.657549E-01	-1.657009E-02
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
34.00	2.412334E-01	2.102610E-01	2.264376E-01	-1.605006E-02
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
38.00	2.096990E-01	1.931527E-01	1.925271E-01	-1.521925E-02
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
42.00	1.027757E-01	1.930643E-01	1.633743E-01	-1.417346E-02
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
46.00	1.598130E-01	1.274174E-01	1.383693E-01	-1.295292E-02
48.00	1.496337E-01	1.160592E-01	1.272451E-01	-1.237455E-02
50.00	1.402310E-01	1.056714E-01	1.169510E-01	-1.174413E-02
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
54.00	1.235251E-01	8.732295E-02	9.061006E-02	-1.047159E-02
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
58.00	1.092547E-01	7.191940E-02	8.291950E-02	-9.212030E-03

SCATTERING ANGLE	I1	I2	I3	I4
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
62.00	9.703956E-02	5.905139E-02	6.947200E-02	-7.993900E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
66.00	8.659619E-02	4.839542E-02	5.793092E-02	-6.020031E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70.00	7.753740E-02	3.951250E-02	4.803399E-02	-5.727266E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
74.00	6.970010E-02	3.244402E-02	3.951513E-02	-4.695111E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
78.00	6.303212E-02	2.665964E-02	3.217521E-02	-3.736409E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
82.00	5.719617E-02	2.205140E-02	2.583976E-02	-2.649352E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
86.00	5.212390E-02	1.847635E-02	2.035744E-02	-2.031916E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90.00	4.770533E-02	1.575696E-02	1.560533E-02	-1.292241E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
94.00	4.384609E-02	1.377002E-02	1.147511E-02	-6.000050E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
98.00	4.046980E-02	1.243134E-02	7.975205E-03	2.005464E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
102.00	3.751401E-02	1.162250E-02	4.727763E-03	5.220028E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
106.00	3.492500E-02	1.127389E-02	1.965077E-03	1.190161E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110.00	3.265603E-02	1.131559E-02	-4.683900E-04	1.535503E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
114.00	3.060704E-02	1.169104E-02	-2.624989E-03	1.940450E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
118.00	2.892920E-02	1.235056E-02	-4.549110E-03	2.290159E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
122.00	2.741340E-02	1.325320E-02	-6.276023E-03	2.585214E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
126.00	2.609049E-02	1.435205E-02	-7.046219E-03	2.036904E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130.00	2.496540E-02	1.564547E-02	-9.290064E-03	3.028057E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
134.00	2.399004E-02	1.707600E-02	-1.063606E-02	3.157091E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
138.00	2.310535E-02	1.852409E-02	-1.191913E-02	3.211000E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
142.00	2.252033E-02	2.025695E-02	-1.317181E-02	3.174251E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
146.00	2.199071E-02	2.192350E-02	-1.443309E-02	3.014316E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150.00	2.162310E-02	2.355000E-02	-1.575362E-02	2.607295E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
154.00	2.141561E-02	2.502023E-02	-1.710930E-02	2.137636E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
158.00	2.144498E-02	2.619793E-02	-1.951201E-02	1.321292E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
162.00	2.180300E-02	2.696890E-02	-2.069792E-02	3.032002E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
166.00	2.306916E-02	2.759751E-02	-2.294351E-02	-5.556167E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
170.00	2.527035E-02	2.851467E-02	-2.555000E-02	-9.507102E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
174.00	2.010750E-02	2.900993E-02	-2.459339E-02	-7.037592E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
178.00	3.066265E-02	3.090657E-02	-3.076639E-02	-1.360593E-04
180.00	3.109076E-02	3.109076E-02	-3.109076E-02	-1.647997E-17

TABLE 327. NORMALIZED PHASE MATRIX FOR TYPE B AEROSOLS, M=1.55-0.01I, k_1=0.06μM, ν=5.0, λ=0.70μ

SCATTERING ANGLE	I1	I2	I3	I4
0.00	[illegible]	[illegible]	[illegible]	[illegible]
.10	1.020247E+00	1.020249E+00	1.020240E+00	-1.054812E-05
.20	[illegible]	[illegible]	[illegible]	[illegible]
.30	1.009525E+00	1.009539E+00	1.009532E+00	-1.590275E-04
.40	[illegible]	[illegible]	[illegible]	[illegible]
.50	9.877439E-01	9.877775E-01	9.877603E-01	-3.958950E-04
.60	[illegible]	[illegible]	[illegible]	[illegible]
.70	9.620971E-01	9.621539E-01	9.621242E-01	-6.722067E-04
.80	[illegible]	[illegible]	[illegible]	[illegible]
.90	9.356095E-01	9.357671E-01	9.357250E-01	-9.405802E-04
1.00	[illegible]	[illegible]	[illegible]	[illegible]
1.10	9.112046E-01	9.113799E-01	9.113200E-01	-1.192117E-03
1.20	[illegible]	[illegible]	[illegible]	[illegible]
1.30	8.899371E-01	8.900470E-01	8.899858E-01	-1.403467E-03
1.40	[illegible]	[illegible]	[illegible]	[illegible]
1.50	8.714366E-01	8.715589E-01	8.714894E-01	-1.615455E-03
1.60	[illegible]	[illegible]	[illegible]	[illegible]
1.70	8.550724E-01	8.552050E-01	8.551204E-01	-1.835230E-03
1.80	[illegible]	[illegible]	[illegible]	[illegible]
1.90	8.402183E-01	8.403610E-01	8.402761E-01	-2.062734E-03
2.00	[illegible]	[illegible]	[illegible]	[illegible]
3.00	7.755041E-01	7.757360E-01	7.756243E-01	-3.274581E-03
4.00	[illegible]	[illegible]	[illegible]	[illegible]
5.00	6.949303E-01	6.948972E-01	6.948042E-01	-5.407984E-03
6.00	[illegible]	[illegible]	[illegible]	[illegible]
7.00	6.347763E-01	6.342802E-01	6.342997E-01	-7.398146E-03
8.00	[illegible]	[illegible]	[illegible]	[illegible]
9.00	5.849130E-01	5.837028E-01	5.839841E-01	-9.202774E-03
10.00	[illegible]	[illegible]	[illegible]	[illegible]
11.00	5.414353E-01	5.392435E-01	5.397266E-01	-1.075577E-02
12.00	[illegible]	[illegible]	[illegible]	[illegible]
13.00	5.024656E-01	4.990546E-01	4.999122E-01	-1.216345E-02
14.00	[illegible]	[illegible]	[illegible]	[illegible]
15.00	4.669759E-01	4.621212E-01	4.634597E-01	-1.330302E-02
16.00	[illegible]	[illegible]	[illegible]	[illegible]
17.00	4.343509E-01	4.278553E-01	4.297016E-01	-1.422550E-02
18.00	[illegible]	[illegible]	[illegible]	[illegible]
19.00	4.041973E-01	3.959954E-01	3.995873E-01	-1.494430E-02
20.00	[illegible]	[illegible]	[illegible]	[illegible]
22.00	3.630354E-01	3.517982E-01	3.555713E-01	-1.567969E-02
24.00	[illegible]	[illegible]	[illegible]	[illegible]
26.00	3.148348E-01	2.994540E-01	3.040841E-01	-1.616521E-02
28.00	[illegible]	[illegible]	[illegible]	[illegible]
30.00	2.733386E-01	2.537719E-01	2.600289E-01	-1.600036E-02
32.00	[illegible]	[illegible]	[illegible]	[illegible]
34.00	2.377149E-01	2.141882E-01	2.226502E-01	-1.558575E-02
36.00	[illegible]	[illegible]	[illegible]	[illegible]
38.00	2.072183E-01	1.798600E-01	1.896793E-01	-1.470356E-02
40.00	[illegible]	[illegible]	[illegible]	[illegible]
42.00	1.811606E-01	1.504786E-01	1.612873E-01	-1.365321E-02
44.00	[illegible]	[illegible]	[illegible]	[illegible]
46.00	1.589450E-01	1.253601E-01	1.360865E-01	-1.255106E-02
48.00	1.490905E-01	1.142499E-01	1.260127E-01	-1.195262E-02
50.00	1.399800E-01	1.040201E-01	1.159309E-01	-1.134332E-02
52.00	[illegible]	[illegible]	[illegible]	[illegible]
54.00	1.230455E-01	8.597403E-02	9.798871E-02	-1.011476E-02
56.00	[illegible]	[illegible]	[illegible]	[illegible]
58.00	1.099724E-01	7.079233E-02	8.251673E-02	-8.898923E-03
60.00	[illegible]	[illegible]	[illegible]	[illegible]
62.00	9.812380E-02	5.008949E-02	6.924051E-02	-7.720099E-03
64.00	[illegible]	[illegible]	[illegible]	[illegible]
66.00	8.794907E-02	4.753163E-02	5.780093E-02	-6.594635E-03
68.00	[illegible]	[illegible]	[illegible]	[illegible]
70.00	7.919707E-02	3.882412E-02	4.794604E-02	-5.530532E-03
72.00	[illegible]	[illegible]	[illegible]	[illegible]
74.00	7.162172E-02	3.171001E-02	3.942166E-02	-4.533627E-03
76.00	[illegible]	[illegible]	[illegible]	[illegible]
78.00	6.507203E-02	2.597241E-02	3.203603E-02	-3.606908E-03
80.00	[illegible]	[illegible]	[illegible]	[illegible]
82.00	5.930494E-02	2.141843E-02	2.562195E-02	-2.755014E-03
84.00	[illegible]	[illegible]	[illegible]	[illegible]
86.00	5.443319E-02	1.784276E-02	2.003633E-02	-1.968909E-03
88.00	[illegible]	[illegible]	[illegible]	[illegible]
90.00	5.011230E-02	1.522423E-02	1.516075E-02	-1.238019E-03
92.00	[illegible]	[illegible]	[illegible]	[illegible]
94.00	4.633433E-02	1.332035E-02	1.099200E-02	-5.781583E-04
96.00	[illegible]	[illegible]	[illegible]	[illegible]
98.00	4.302502E-02	1.206422E-02	7.143067E-03	2.162085E-05
100.00	[illegible]	[illegible]	[illegible]	[illegible]
102.00	4.012170E-02	1.136443E-02	3.839959E-03	5.840276E-04
104.00	[illegible]	[illegible]	[illegible]	[illegible]
106.00	3.757256E-02	1.114150E-02	9.185699E-04	1.052490E-03
108.00	[illegible]	[illegible]	[illegible]	[illegible]
110.00	3.533425E-02	1.132620E-02	-1.675722E-03	1.485316E-03
112.00	[illegible]	[illegible]	[illegible]	[illegible]
114.00	3.336963E-02	1.195952E-02	-3.990505E-03	1.875970E-03
116.00	[illegible]	[illegible]	[illegible]	[illegible]
118.00	3.164782E-02	1.280952E-02	-6.058470E-03	2.212019E-03
120.00	[illegible]	[illegible]	[illegible]	[illegible]
122.00	3.014336E-02	1.377105E-02	-7.946355E-03	2.503006E-03
124.00	[illegible]	[illegible]	[illegible]	[illegible]
126.00	2.883444E-02	1.506551E-02	-9.657298E-03	2.741027E-03
128.00	[illegible]	[illegible]	[illegible]	[illegible]
130.00	2.770203E-02	1.653760E-02	-1.123239E-02	2.928890E-03
132.00	[illegible]	[illegible]	[illegible]	[illegible]
134.00	2.673447E-02	1.815509E-02	-1.270194E-02	3.050393E-03
136.00	[illegible]	[illegible]	[illegible]	[illegible]
138.00	2.591039E-02	1.995550E-02	-1.409621E-02	3.103699E-03
140.00	[illegible]	[illegible]	[illegible]	[illegible]
142.00	2.524690E-02	2.169146E-02	-1.544715E-02	3.066070E-03
144.00	[illegible]	[illegible]	[illegible]	[illegible]
146.00	2.471645E-02	2.352141E-02	-1.679265E-02	2.912266E-03
148.00	[illegible]	[illegible]	[illegible]	[illegible]
150.00	2.433016E-02	2.529020E-02	-1.810001E-02	2.597029E-03
152.00	[illegible]	[illegible]	[illegible]	[illegible]
154.00	2.410007E-02	2.690752E-02	-1.966634E-02	2.065240E-03
156.00	[illegible]	[illegible]	[illegible]	[illegible]
158.00	2.411000E-02	2.828532E-02	-2.131096E-02	1.276296E-03
160.00	[illegible]	[illegible]	[illegible]	[illegible]
162.00	2.452957E-02	2.910449E-02	-2.321346E-02	2.939426E-04
164.00	[illegible]	[illegible]	[illegible]	[illegible]
166.00	2.566477E-02	2.981815E-02	-2.543961E-02	-5.744000E-04
168.00	[illegible]	[illegible]	[illegible]	[illegible]
170.00	2.770894E-02	3.080262E-02	-2.810096E-02	-9.240663E-04
172.00	[illegible]	[illegible]	[illegible]	[illegible]
174.00	3.059115E-02	3.211601E-02	-3.096254E-02	-6.790545E-04
176.00	[illegible]	[illegible]	[illegible]	[illegible]
178.00	3.297936E-02	3.321034E-02	-3.367725E-02	-1.312963E-04
180.00	3.339273E-02	3.339273E-02	-3.339273E-02	-1.408657E-17

TABLE 32B. NORMALIZED PHASE MATRIX FOR TYPE B AEROSOLS, M=1.55-0.01I, R_1=0.06μM, ν=5.0, λ=1.60μ

SCATTERING ANGLE	I1	I2	I3	I4
0.00	[illegible]	[illegible]	[illegible]	[illegible]
.10	8.983204E-01	8.983211E-01	8.983207E-01	-8.846700E-06
.20	[illegible]	[illegible]	[illegible]	[illegible]
.30	8.678232E-01	8.678301E-01	8.678267E-01	-7.163087E-05
.40	[illegible]	[illegible]	[illegible]	[illegible]
.50	8.829457E-01	8.829641E-01	8.829548E-01	-1.947616E-04
.60	[illegible]	[illegible]	[illegible]	[illegible]
.70	8.759186E-01	8.759451E-01	8.759276E-01	-3.657850E-04
.80	[illegible]	[illegible]	[illegible]	[illegible]
.90	8.678272E-01	8.378810E-01	8.678533E-01	-5.064211E-04
1.00	[illegible]	[illegible]	[illegible]	[illegible]
1.10	8.566646E-01	8.567391E-01	8.567803E-01	-8.329119E-04
1.20	[illegible]	[illegible]	[illegible]	[illegible]
1.30	8.452213E-01	8.453160E-01	8.452660E-01	[illegible]
1.40	[illegible]	[illegible]	[illegible]	-1.097317E-03
1.50	8.330961E-01	8.332094E-01	8.331473E-01	[illegible]
1.60	[illegible]	[illegible]	[illegible]	-1.360717E-03
1.70	8.206539E-01	8.207850E-01	8.207123E-01	[illegible]
1.80	[illegible]	[illegible]	[illegible]	-1.638170E-03
1.90	8.082167E-01	8.083698E-01	[illegible]	[illegible]
2.00	[illegible]	[illegible]	8.082706E-01	-1.895309E-03
3.00	7.477297E-01	7.479741E-01	[illegible]	[illegible]
4.00	[illegible]	[illegible]	7.477685E-01	-3.134915E-03
5.00	6.710316E-01	6.709594E-01	[illegible]	[illegible]
6.00	[illegible]	[illegible]	6.708912E-01	-5.376480E-03
7.00	6.134094E-01	6.129344E-01	[illegible]	[illegible]
8.00	[illegible]	[illegible]	6.129999E-01	-7.075150E-03
9.00	5.657414E-01	5.644439E-01	[illegible]	[illegible]
10.00	[illegible]	[illegible]	5.647053E-01	-8.405562E-03
11.00	5.248961E-01	5.217960E-01	[illegible]	[illegible]
12.00	[illegible]	[illegible]	5.223597E-01	-1.033197E-02
13.00	4.867638E-01	4.832230E-01	[illegible]	[illegible]
14.00	[illegible]	[illegible]	4.841821E-01	-1.164492E-02
15.00	4.527636E-01	4.477582E-01	[illegible]	[illegible]
16.00	[illegible]	[illegible]	4.492187E-01	-1.274128E-02
17.00	4.215864E-01	4.148343E-01	[illegible]	[illegible]
18.00	[illegible]	[illegible]	4.169811E-01	-1.362879E-02
19.00	3.926165E-01	3.841059E-01	[illegible]	[illegible]
20.00	[illegible]	[illegible]	3.868001E-01	-1.431576E-02
22.00	3.531797E-01	3.416723E-01	[illegible]	[illegible]
24.00	[illegible]	[illegible]	3.456447E-01	-1.501825E-02
26.00	3.069970E-01	2.912400E-01	[illegible]	[illegible]
28.00	[illegible]	[illegible]	2.969275E-01	-1.542429E-02
30.00	2.672332E-01	2.471610E-01	[illegible]	[illegible]
32.00	[illegible]	[illegible]	2.545398E-01	-1.533334E-02
34.00	2.336985E-01	2.088246E-01	[illegible]	[illegible]
36.00	[illegible]	[illegible]	2.177583E-01	-1.485256E-02
38.00	2.030590E-01	1.756683E-01	[illegible]	[illegible]
40.00	[illegible]	[illegible]	1.859421E-01	-1.408472E-02
42.00	1.780041E-01	1.471225E-01	[illegible]	[illegible]
44.00	[illegible]	[illegible]	1.584924E-01	-1.311829E-02
46.00	1.575764E-01	1.226893E-01	[illegible]	[illegible]
48.00	1.481254E-01	1.119573E-01	1.340497E-01	-1.202368E-02
50.00	1.393946E-01	1.018700E-01	1.242909E-01	-1.144596E-02
52.00	1.313272E-01	9.267580E-02	1.144954E-01	-1.086635E-02
54.00	1.238702E-01	9.421799E-02	[illegible]	[illegible]
56.00	[illegible]	[illegible]	9.696943E-02	-9.699325E-03
58.00	1.109944E-01	6.932557E-02	[illegible]	[illegible]
			8.186198E-02	-8.524974E-03

SCATTERING ANGLE	I1	I2	I3	I4
60.00	[illegible]	[illegible]	[illegible]	[illegible]
62.00	9.921764E-02	5.683339E-02	6.931760E-02	[illegible]
64.00	[illegible]	[illegible]	[illegible]	-7.395535E-03
66.00	8.944308E-02	4.642517E-02	5.753870E-02	[illegible]
68.00	[illegible]	[illegible]	[illegible]	-6.317219E-03
70.00	8.102401E-02	3.782487E-02	4.774032E-02	[illegible]
72.00	7.729919E-02	[illegible]	[illegible]	-5.290107E-03
74.00	7.374936E-02	3.079260E-02	3.922493E-02	[illegible]
76.00	7.048993E-02	[illegible]	[illegible]	-4.243922E-03
78.00	6.744599E-02	2.512069E-02	3.179707E-02	[illegible]
80.00	[illegible]	[illegible]	[illegible]	-3.455639E-03
82.00	6.196889E-02	2.052926E-02	2.529807E-02	[illegible]
84.00	[illegible]	[illegible]	[illegible]	-2.634495E-03
86.00	5.719697E-02	1.716225E-02	1.959367E-02	[illegible]
88.00	[illegible]	[illegible]	[illegible]	-1.872713E-03
90.00	5.302933E-02	1.458458E-02	1.457052E-02	[illegible]
92.00	[illegible]	[illegible]	[illegible]	-1.186114E-03
94.00	4.938143E-02	1.277620E-02	1.013237E-02	[illegible]
96.00	[illegible]	[illegible]	[illegible]	-5.540197E-04
98.00	4.618254E-02	1.164069E-02	[illegible]	[illegible]
100.00	[illegible]	[illegible]	6.197430E-03	2.852885E-05
102.00	4.337358E-02	1.108100E-02	[illegible]	[illegible]
104.00	[illegible]	[illegible]	2.696175E-03	5.483944E-04
106.00	4.090450E-02	1.102290E-02	[illegible]	[illegible]
108.00	[illegible]	[illegible]	-4.709670E-04	1.008281E-03
110.00	3.873360E-02	1.139409E-02	[illegible]	[illegible]
112.00	[illegible]	[illegible]	-3.235279E-03	1.426546E-03
114.00	3.682571E-02	1.213395E-02	[illegible]	[illegible]
116.00	[illegible]	[illegible]	-5.751117E-03	1.797033E-03
118.00	3.515146E-02	1.318818E-02	[illegible]	[illegible]
120.00	[illegible]	[illegible]	-8.047327E-03	2.120754E-03
122.00	3.368613E-02	1.458942E-02	[illegible]	[illegible]
124.00	[illegible]	[illegible]	-1.012534E-02	2.397701E-03
126.00	3.240918E-02	1.605129E-02	[illegible]	[illegible]
128.00	[illegible]	[illegible]	-1.203526E-02	2.626479E-03
130.00	3.130348E-02	1.777727E-02	[illegible]	[illegible]
132.00	[illegible]	[illegible]	-1.379692E-02	2.803634E-03
134.00	3.035566E-02	1.964927E-02	[illegible]	[illegible]
136.00	[illegible]	[illegible]	-1.544097E-02	2.922763E-03
138.00	2.955586E-02	2.162979E-02	[illegible]	[illegible]
140.00	[illegible]	[illegible]	-1.699553E-02	2.973187E-03
142.00	2.889424E-02	2.367659E-02	[illegible]	[illegible]
144.00	[illegible]	[illegible]	-1.849105E-02	2.937605E-03
146.00	2.836994E-02	2.573469E-02	[illegible]	[illegible]
148.00	[illegible]	[illegible]	-1.996327E-02	2.795848E-03
150.00	2.798593E-02	2.772466E-02	[illegible]	[illegible]
152.00	[illegible]	[illegible]	-2.145651E-02	2.487676E-03
154.00	2.776203E-02	2.953077E-02	[illegible]	[illegible]
156.00	[illegible]	[illegible]	-2.302586E-02	1.970291E-03
158.00	2.776062E-02	3.100980E-02	[illegible]	[illegible]
160.00	[illegible]	[illegible]	-2.473267E-02	1.222076E-03
162.00	2.81-394E-02	3.207529E-02	[illegible]	[illegible]
164.00	2.857614E-02	[illegible]	-2.665093E-02	2.041191E-04
166.00	2.922369E-02	3.292779E-02	[illegible]	-1.765172E-04
168.00	3.011777E-02	[illegible]	-2.886707E-02	-5.500613E-04
170.00	3.124574E-02	3.399946E-02	[illegible]	[illegible]
172.00	3.255271E-02	3.458834E-02	-3.148841E-02	-8.262507E-04
174.00	3.393395E-02	3.534440E-02	[illegible]	[illegible]
176.00	3.522984E-02	3.597258E-02	-3.426404E-02	-6.510842E-04
178.00	3.521940E-02	3.643501E-02	[illegible]	[illegible]
180.00	3.661531E-02	3.661531E-02	-3.631072E-02	-1.255580E-04
			-3.661531E-02	-1.651452E-1?

APPENDIX C.

Normalized Phase Matrices for Type A Aerosols

TABLE C1. NORMALIZED PHASE MATRIX FOR TYPE A AEROSOLS, MODEL 200, λ=0.45μ

M=1.55-0.01I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.111501E+03	1.111501E+03	1.111501E+03	-1.086495E-12
.10	1.049437E+03	1.049947E+03	1.049942E+03	-2.010975E-01
.20	9.541452E+02	9.541015E+02	9.541630E+02	-7.239911E-01
.30	7.487457E+02	7.480614E+02	7.480073E+02	-1.364559E+00
.40	6.028283E+02	6.029131E+02	6.028674E+02	-1.886974E+00
.50	4.285762E+02	4.286640E+02	4.286124E+02	-2.123865E+00
.60	2.861502E+02	2.862145E+02	2.861734E+02	-2.036210E+00
.70	1.841348E+02	1.841654E+02	1.841390E+02	-1.708686E+00
.80	1.198714E+02	1.198656E+02	1.198567E+02	-1.291144E+00
.90	8.375425E+01	8.371488E+01	8.372525E+01	-9.225135E-01
1.00	6.443278E+01	6.437869E+01	6.439569E+01	-6.767249E-01
1.10	5.240388E+01	5.274138E+01	5.276379E+01	-5.520774E-01
1.20	4.370772E+01	4.364289E+01	4.366715E+01	-4.989540E-01
1.30	3.548186E+01	3.541639E+01	3.544111E+01	-4.619525E-01
1.40	2.837319E+01	2.830629E+01	2.833167E+01	-4.105671E-01
1.50	2.295615E+01	2.288685E+01	2.291350E+01	-3.454113E-01
1.60	1.927716E+01	1.920570E+01	1.923380E+01	-2.841885E-01
1.70	1.681540E+01	1.674313E+01	1.677219E+01	-2.421723E-01
1.80	1.489467E+01	1.482331E+01	1.485250E+01	-2.210235E-01
1.90	1.308508E+01	1.301503E+01	1.304371E+01	-2.106050E-01
2.00	1.132192E+01	1.125324E+01	1.128128E+01	-1.987397E-01
3.00	3.999059E+00	3.939263E+00	3.964250E+00	-8.147962E-02
4.00	2.069993E+00	2.019437E+00	2.040669E+00	-4.926963E-02
5.00	1.317540E+00	1.273806E+00	1.292164E+00	-3.191504E-02
6.00	9.423126E-01	9.039075E-01	9.198704E-01	-2.470319E-02
7.00	7.345953E-01	7.041319E-01	7.183618E-01	-1.981272E-02
8.00	6.070441E-01	5.762574E-01	5.890189E-01	-1.665119E-02
9.00	5.236248E-01	4.944594E-01	5.060977E-01	-1.461576E-02
10.00	4.627664E-01	4.356574E-01	4.463731E-01	-1.302114E-02
11.00	4.181506E-01	3.926565E-01	4.026131E-01	-1.208704E-02
12.00	3.836835E-01	3.594406E-01	3.687718E-01	-1.122974E-02
13.00	3.560273E-01	3.328169E-01	3.416150E-01	-1.073267E-02
14.00	3.333279E-01	3.109463E-01	3.193067E-01	-1.032862E-02
15.00	3.134619E-01	2.921231E-01	3.001132E-01	-1.005756E-02
16.00	2.970892E-01	2.759079E-01	2.835802E-01	-9.866150E-03
17.00	2.821152E-01	2.613532E-01	2.687782E-01	-9.705630E-03
18.00	2.687325E-01	2.482869E-01	2.555135E-01	-9.600707E-03
19.00	2.565471E-01	2.363264E-01	2.433989E-01	-9.490709E-03
20.00	2.453743E-01	2.253080E-01	2.322623E-01	-9.417852E-03
22.00	2.254390E-01	2.055288E-01	2.123180E-01	-9.281058E-03
24.00	2.079869E-01	1.880670E-01	1.947626E-01	-9.176708E-03
26.00	1.923718E-01	1.723567E-01	1.789796E-01	-9.088906E-03
28.00	1.782871E-01	1.580353E-01	1.645946E-01	-8.976196E-03
30.00	1.653126E-01	1.449660E-01	1.514485E-01	-8.820460E-03
32.00	1.535605E-01	1.329603E-01	1.394166E-01	-8.637308E-03
34.00	1.422736E-01	1.219201E-01	1.283365E-01	-8.439001E-03
36.00	1.328236E-01	1.117486E-01	1.180955E-01	-8.229024E-03
38.00	1.236281E-01	1.023492E-01	1.086136E-01	-8.001176E-03
40.00	1.151057E-01	9.368009E-02	9.983955E-02	-7.756749E-03
42.00	1.072245E-01	8.568589E-02	9.171896E-02	-7.496921E-03
44.00	9.992702E-02	7.831818E-02	8.420111E-02	-7.229584E-03
46.00	9.315316E-02	7.153291E-02	7.723664E-02	-6.956373E-03
48.00	8.686561E-02	6.528904E-02	7.078617E-02	-6.675364E-03
50.00	8.102258E-02	5.956349E-02	6.488884E-02	-6.390894E-03
52.00	7.559195E-02	5.426466E-02	5.926940E-02	-6.105368E-03
54.00	7.054619E-02	4.962694E-02	5.414394E-02	-5.816463E-03
56.00	6.585752E-02	4.499933E-02	4.940329E-02	-5.522079E-03
58.00	6.150338E-02	4.095281E-02	4.502224E-02	-5.222909E-03
60.00	5.745316E-02	3.726014E-02	4.097840E-02	-4.921083E-03
62.00	5.371409E-02	3.389835E-02	3.725146E-02	-4.617675E-03
64.00	5.024781E-02	3.084026E-02	3.381671E-02	-4.317497E-03
66.00	4.702500E-02	2.806427E-02	3.065478E-02	-4.021363E-03
68.00	4.403486E-02	2.553187E-02	2.773741E-02	-3.726400E-03
70.00	4.126463E-02	2.321136E-02	2.506042E-02	-3.434324E-03
72.00	3.869991E-02	2.123150E-02	2.260098E-02	-3.147393E-03
74.00	3.632228E-02	1.938377E-02	2.034286E-02	-2.867766E-03
76.00	3.411854E-02	1.772361E-02	1.826943E-02	-2.598430E-03
78.00	3.207109E-02	1.622717E-02	1.636464E-02	-2.340036E-03
80.00	3.016791E-02	1.489137E-02	1.461597E-02	-2.091246E-03
82.00	2.839983E-02	1.370091E-02	1.301168E-02	-1.852115E-03
84.00	2.675514E-02	1.264255E-02	1.153833E-02	-1.621707E-03
86.00	2.522503E-02	1.170490E-02	1.018640E-02	-1.399013E-03
88.00	2.380437E-02	1.087079E-02	8.944094E-03	-1.183493E-03
90.00	2.246609E-02	1.015540E-02	7.805991E-03	-9.737202E-04
92.00	2.126300E-02	9.524816E-03	6.762571E-03	-7.694949E-04
94.00	2.013202E-02	8.980265E-03	5.806721E-03	-5.716985E-04
96.00	1.908410E-02	8.512411E-03	4.929682E-03	-3.810923E-04
98.00	1.811202E-02	8.113572E-03	4.124812E-03	-1.983520E-04
100.00	1.721057E-02	7.776308E-03	3.386637E-03	-2.453395E-05
102.00	1.637449E-02	7.502099E-03	2.704838E-03	1.404000E-04
104.00	1.559812E-02	7.279672E-03	2.077603E-03	2.977522E-04
106.00	1.487237E-02	7.106074E-03	1.498247E-03	4.474374E-04
108.00	1.420963E-02	6.973023E-03	9.637593E-04	5.8996[illegible]E-04
110.00	1.359151E-02	6.880816E-03	4.667892E-04	7.242743E-04
112.00	1.301943E-02	6.825039E-03	4.861717E-06	8.509561E-04
114.00	1.249649E-02	6.802776E-03	-4.259241E-04	9.695097E-04
116.00	1.200367E-02	6.811999E-03	-8.290174E-04	1.080082E-03
118.00	1.154675E-02	6.850010E-03	-1.207544E-03	1.182967E-03
120.00	1.114168E-02	6.914926E-03	-1.562083E-03	1.278664E-03
122.00	1.076243E-02	7.005280E-03	-1.896521E-03	1.367151E-03
124.00	1.041652E-02	7.121075E-03	-2.212173E-03	1.448203E-03
126.00	1.010312E-02	7.261660E-03	-2.511156E-03	1.521694E-03
128.00	9.819688E-03	7.424893E-03	-2.795116E-03	1.586709E-03
130.00	9.565057E-03	7.611125E-03	-3.066988E-03	1.643631E-03
132.00	9.338178E-03	7.820306E-03	-3.327782E-03	1.691956E-03
134.00	9.136141E-03	8.052957E-03	-3.581022E-03	1.732938E-03
136.00	8.955513E-03	8.306605E-03	-3.826696E-03	1.765133E-03
138.00	8.801624E-03	8.580276E-03	-4.068368E-03	1.787627E-03
140.00	8.670111E-03	8.872978E-03	-4.307586E-03	1.799271E-03
142.00	8.563321E-03	9.185136E-03	[illegible]	1.800702E-03
144.00	8.479942E-03	9.516692E-03	-4.791196E-03	1.791528E-03
146.00	8.422063E-03	9.866974E-03	-5.042233E-03	1.770936E-03
148.00	8.390270E-03	1.023553E-02	-5.300856E-03	1.737370E-03
150.00	8.390834E-03	1.061896E-02	-5.584806E-03	1.692077E-03
152.00	8.432364E-03	1.101923E-02	-5.884621E-03	1.637022E-03
154.00	8.529002E-03	1.143472E-02	-6.211321E-03	1.577726E-03
156.00	8.695211E-03	1.186373E-02	-6.572809E-03	1.513179E-03
158.00	8.963936E-03	1.226698E-02	-6.983486E-03	1.436955E-03
160.00	9.302088E-03	1.268581E-02	-7.454506E-03	1.328005E-03
162.00	9.812197E-03	1.295438E-02	-7.984073E-03	1.175782E-03
164.00	1.052154E-02	1.316123E-02	-8.518866E-03	1.000242E-03
166.00	1.140218E-02	1.342983E-02	-9.068887E-03	8.620795E-04
168.00	1.232416E-02	1.383444E-02	-9.642911E-03	7.200460E-04
170.00	1.319094E-02	1.439806E-02	-1.029268E-02	5.406588E-04
172.00	1.406267E-02	1.511566E-02	-1.105568E-02	3.400461E-04
174.00	1.494831E-02	1.594117E-02	-1.199643E-02	1.146651E-04
176.00	1.581741E-02	1.676542E-02	-1.322462E-02	-1.444186E-04
178.00	1.624106E-02	1.697253E-02	-1.522976E-02	-4.095244E-04
180.00	1.675757E-02	1.675757E-02	-1.675757E-02	-1.784925E-17

TABLE C2. NORMALIZED PHASE MATRIX FOR TYPE A AEROSOLS, MODEL 200, λ=0.55μ

M=1.55-0.01I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	8.600180E+02	8.600180E+02	8.600180E+02	-8.256710E-13
.10	8.390712E+02	8.390780E+02	8.390750E+02	-1.282663E-01
.20	7.769960E+02	7.770246E+02	7.770105E+02	-4.780048E-01
.30	6.834889E+02	6.834551E+02	6.834273E+02	-9.555798E-01
.40	5.788453E+02	5.789239E+02	5.788826E+02	-1.437144E+00
.50	4.530756E+02	4.531687E+02	4.531181E+02	-1.806539E+00
.60	3.424291E+02	3.425222E+02	3.424690E+02	-1.987250E+00
.70	2.478486E+02	2.479268E+02	2.478783E+02	-1.959795E+00
.80	1.739895E+02	1.739613E+02	1.739237E+02	-1.759644E+00
.90	1.209496E+02	1.209694E+02	1.209463E+02	-1.458534E+00
1.00	8.608693E+01	8.607595E+01	8.606801E+01	-1.137454E+00
1.10	6.478673E+01	6.467051E+01	6.467584E+01	-8.616954E-01
1.20	5.194043E+01	5.188785E+01	5.190206E+01	-6.646914E-01
1.30	4.376734E+01	4.378445E+01	4.372537E+01	-5.481827E-01
1.40	3.754829E+01	3.748171E+01	3.750541E+01	-4.896829E-01
1.50	3.201625E+01	3.196856E+01	3.197328E+01	-4.584565E-01
1.60	2.689588E+01	2.682772E+01	2.685270E+01	-4.290915E-01
1.70	2.239614E+01	2.232470E+01	2.235025E+01	-3.892507E-01
1.80	1.870716E+01	1.869568E+01	1.872228E+01	-3.398933E-01
1.90	1.608064E+01	1.610682E+01	1.683476E+01	-2.899196E-01
2.00	1.417273E+01	1.409766E+01	1.412676E+01	-2.489476E-01
3.00	5.190703E+00	5.122362E+00	5.150306E+00	-1.136183E-01
4.00	2.553945E+00	2.494740E+00	2.519092E+00	-6.797785E-02
5.00	1.533663E+00	1.481711E+00	1.503653E+00	-4.374736E-02
6.00	1.063467E+00	1.017290E+00	1.036231E+00	-3.083246E-02
7.00	8.036614E-01	7.620350E-01	7.789080E-01	-2.474417E-02
8.00	6.386156E-01	6.009886E-01	6.161277E-01	-2.057320E-02
9.00	5.314347E-01	4.967775E-01	5.105479E-01	-1.723069E-02
10.00	4.586082E-01	4.203649E-01	4.390297E-01	-1.503997E-02
11.00	4.046063E-01	3.744332E-01	3.861439E-01	-1.356678E-02
12.00	3.634703E-01	3.340087E-01	3.457879E-01	-1.232933E-02
13.00	3.317798E-01	3.045609E-01	3.147900E-01	-1.131560E-02
14.00	3.062667E-01	2.801998E-01	2.898522E-01	-1.060177E-02
15.00	2.849736E-01	2.597272E-01	2.690228E-01	-1.001613E-02
16.00	2.670988E-01	2.478074E-01	2.515339E-01	-9.506389E-03
17.00	2.517689E-01	2.281533E-01	2.365287E-01	-9.108744E-03
18.00	2.382885E-01	2.152395E-01	2.233177E-01	-8.812069E-03
19.00	2.262660E-01	2.036671E-01	2.114923E-01	-8.551468E-03
20.00	2.154440E-01	1.932521E-01	2.008674E-01	-8.315164E-03
22.00	1.965479E-01	1.760425E-01	1.822462E-01	-7.960280E-03
24.00	1.804169E-01	1.592228E-01	1.662316E-01	-7.643954E-03
26.00	1.663204E-01	1.453937E-01	1.521816E-01	-7.381287E-03
28.00	1.538273E-01	1.330594E-01	1.396596E-01	-7.129911E-03
30.00	1.425988E-01	1.219693E-01	1.283430E-01	-6.898616E-03
32.00	1.324129E-01	1.117470E-01	1.180292E-01	-6.672707E-03
34.00	1.231011E-01	1.026282E-01	1.085570E-01	-6.441896E-03
36.00	1.145818E-01	9.307796E-02	9.985948E-02	-6.195602E-03
38.00	1.067630E-01	8.481595E-02	9.184967E-02	-5.939820E-03
40.00	9.957110E-02	7.677954E-02	8.446217E-02	-5.678501E-03
42.00	9.296532E-02	7.211156E-02	7.763628E-02	-5.411616E-03
44.00	8.684457E-02	6.597085E-02	7.133308E-02	-5.139321E-03
46.00	8.122707E-02	6.032296E-02	6.551686E-02	-4.870624E-03
48.00	7.602828E-02	5.512753E-02	6.013567E-02	-4.611535E-03
50.00	7.120589E-02	5.034528E-02	5.514679E-02	-4.356511E-03
52.00	6.673609E-02	4.594532E-02	5.052362E-02	-4.104879E-03
54.00	6.259486E-02	4.189937E-02	4.623746E-02	-3.858598E-03
56.00	5.874714E-02	3.818256E-02	4.226210E-02	-3.618223E-03
58.00	5.517630E-02	3.477686E-02	3.857710E-02	-3.382127E-03
60.00	5.185882E-02	3.165633E-02	3.516472E-02	-3.151454E-03
62.00	4.877615E-02	2.880440E-02	3.200054E-02	-2.927738E-03
64.00	4.590849E-02	2.620027E-02	2.906834E-02	-2.708622E-03
66.00	4.324101E-02	2.382569E-02	2.635031E-02	-2.494472E-03
68.00	4.076111E-02	2.166533E-02	2.383385E-02	-2.284948E-03
70.00	3.845760E-02	1.970515E-02	2.150552E-02	-2.082079E-03
72.00	3.631349E-02	1.792955E-02	1.935037E-02	-1.885159E-03
74.00	3.431763E-02	1.632557E-02	1.735806E-02	-1.694980E-03
76.00	3.245763E-02	1.488137E-02	1.551593E-02	-1.512990E-03
78.00	3.072270E-02	1.358608E-02	1.381306E-02	-1.337466E-03
80.00	2.910534E-02	1.243001E-02	1.224114E-02	-1.166979E-03
82.00	2.759642E-02	1.141076E-02	1.079075E-02	-1.002523E-03
84.00	2.619591E-02	1.043836E-02	9.452126E-03	-8.444365E-04
86.00	2.488792E-02	9.663611E-03	8.214068E-03	-6.928634E-04
88.00	2.366734E-02	8.978602E-03	7.074565E-03	-5.467719E-04
90.00	2.252990E-02	8.365631E-03	6.021154E-03	-4.058329E-04
92.00	2.146820E-02	7.836048E-03	5.048379E-03	-2.709130E-04
94.00	2.047677E-02	7.385411E-03	4.150289E-03	-1.406623E-04
96.00	1.955201E-02	7.004843E-03	3.320597E-03	-1.607718E-05
98.00	1.868862E-02	6.689958E-03	2.553145E-03	1.037323E-04
100.00	1.788447E-02	6.434480E-03	1.844035E-03	2.192741E-04
102.00	1.713582E-02	6.233038E-03	1.186251E-03	3.290167E-04
104.00	1.643785E-02	6.081681E-03	5.817485E-04	4.332160E-04
106.00	1.578704E-02	5.975611E-03	2.075906E-05	5.313349E-04
108.00	1.517986E-02	5.912403E-03	-4.991668E-04	6.233277E-04
110.00	1.461371E-02	5.888649E-03	-9.312875E-04	7.106343E-04
112.00	1.408730E-02	5.900211E-03	-1.428063E-03	7.933611E-04
114.00	1.359860E-02	5.944255E-03	-1.842559E-03	8.705287E-04
116.00	1.314439E-02	5.019162E-03	-2.227989E-03	9.423412E-04
118.00	1.272295E-02	6.122755E-03	-2.586590E-03	1.009376E-03
120.00	1.233255E-02	6.253704E-03	-2.921534E-03	1.070987E-03
122.00	1.197129E-02	6.416719E-03	-3.235270E-03	1.128149E-03
124.00	1.163803E-02	6.530791E-03	-3.529508E-03	1.181428E-03
126.00	1.133086E-02	6.791613E-03	-3.806039E-03	1.229984E-03
128.00	1.104750E-02	7.012993E-03	-4.067059E-03	1.273241E-03
130.00	1.078718E-02	7.256481E-03	-4.314863E-03	1.311727E-03
132.00	1.054906E-02	7.514688E-03	-4.551117E-03	1.345183E-03
134.00	1.033158E-02	7.792743E-03	-4.777924E-03	1.373314E-03
136.00	1.013500E-02	8.068431E-03	-4.998134E-03	1.397547E-03
138.00	9.960346E-03	8.401729E-03	-5.213622E-03	1.418980E-03
140.00	9.809299E-03	8.732956E-03	-5.425305E-03	1.436754E-03
142.00	9.683009E-03	9.083418E-03	-5.635658E-03	1.450959E-03
144.00	9.581673E-03	9.453559E-03	-5.846401E-03	1.462466E-03
146.00	9.509749E-03	9.843814E-03	-6.059763E-03	1.473243E-03
148.00	9.473323E-03	1.025934E-02	-6.278605E-03	1.486510E-03
150.00	9.474206E-03	1.067358E-02	-6.506138E-03	1.503916E-03
152.00	9.523097E-03	1.110193E-02	-6.749181E-03	1.524152E-03
154.00	9.623830E-03	1.164346E-02	-7.016532E-03	1.542417E-03
156.00	9.797964E-03	1.219815E-02	-7.319300E-03	1.556260E-03
158.00	1.007408E-02	1.271259E-02	-7.671923E-03	1.563351E-03
160.00	1.049207E-02	1.319515E-02	-8.086299E-03	1.554617E-03
162.00	1.104174E-02	1.358498E-02	-8.558541E-03	1.498176E-03
164.00	1.190602E-02	1.387004E-02	-9.020510E-03	1.391445E-03
166.00	1.287316E-02	1.421186E-02	-9.480560E-03	1.286638E-03
168.00	1.382042E-02	1.458918E-02	-9.379947E-03	1.117049E-03
170.00	1.464771E-02	1.535864E-02	-1.054694E-02	8.799136E-04
172.00	1.550464E-02	1.623603E-02	-1.124748E-02	6.080078E-04
174.00	1.642624E-02	1.730874E-02	-1.214146E-02	3.143830E-04
176.00	1.731330E-02	1.837533E-02	-1.346803E-02	-8.127151E-05
178.00	1.756297E-02	1.853059E-02	-1.606779E-02	-5.486100E-04
180.00	1.816526E-02	1.816526E-02	-1.816526E-02	-1.414991E-17

TABLE C3. NORMALIZED PHASE MATRIX FOR TYPE A AEROSOLS, MODEL 200, λ=0.70μ

N=1.55-i.001

SCATTERING ANGLE	I1	I2	I3	I4
0.00	6.892771E+02	6.892771E+02	6.892771E+02	-5.754229E-13
.10	6.496685E+02	6.496436E+02	6.496585E+02	-7.168188E-02
.20	5.717967E+02	5.718154E+02	5.718060E+02	-2.735942E-01
.30	5.201043E+02	5.201429E+02	5.201233E+02	-5.723676E-01
.40	4.724028E+02	4.724638E+02	4.724323E+02	-9.179389E-01
.50	4.492729E+02	4.493536E+02	4.493111E+02	-1.255110E+00
.60	3.435056E+02	3.435996E+02	3.435408E+02	-1.53313 E+00
.70	2.795367E+02	2.796363E+02	2.795866E+02	-1.716632E+00
.80	2.209407E+02	2.210835E+02	2.210277E+02	-1.751224E+00
.90	1.783641E+02	1.784446E+02	1.783937E+02	-1.734964E+00
1.00	1.285305E+02	1.269900E+02	1.269594E+02	-1.695958E+00
1.10	9.833829E+01	9.846965E+01	9.843088E+01	-1.395627E+00
1.20	7.324857E+01	7.329656E+01	7.323796E+01	-1.160289E+00
1.30	5.675424E+01	5.674810E+01	5.673324E+01	-4.491259E-01
1.40	4.565715E+01	4.562127E+01	4.562487E+01	-7.617952E-01
1.50	3.827316E+01	3.822278E+01	3.823659E+01	-6.189275E-01
1.60	3.317284E+01	3.311303E+01	3.313070E+01	-5.219950E-01
1.70	2.929593E+01	2.923897E+01	2.925216E+01	-4.633210E-01
1.80	2.597950E+01	2.591235E+01	2.393530E+01	-4.302200E-01
1.90	2.296888E+01	2.243944E+01	2.242699E+01	-4.031900E-01
2.00	2.000000E+01	1.994060E+01	1.996460E+01	-3.693712E-01
3.00	6.919787E+00	6.866659E+00	6.875216E+00	-1.732911E-01
4.00	3.313795E+00	3.247035E+00	3.273605E+00	-9.683969E-02
5.00	1.919158E+00	1.859226E+00	1.883188E+00	-6.203433E-02
6.00	1.273305E+00	1.219564E+00	1.240990E+00	-4.367273E-02
7.00	9.207238E-01	8.728313E-01	8.913918E-01	-3.318891E-02
8.00	7.105940E-01	6.662236E-01	6.837151E-01	-2.634089E-02
9.00	5.738689E-01	5.338697E-01	5.439859E-01	-2.197193E-02
10.00	4.799725E-01	4.422855E-01	4.567207E-01	-1.877259E-02
11.00	4.124847E-01	3.771693E-01	3.905095E-01	-1.639957E-02
12.00	3.621918E-01	3.290621E-01	3.414119E-01	-1.450964E-02
13.00	3.234379E-01	2.921649E-01	3.036146E-01	-1.302133E-02
14.00	2.930354E-01	2.632917E-01	2.740129E-01	-1.181795E-02
15.00	2.684442E-01	2.400411E-01	2.501140E-01	-1.082893E-02
16.00	2.481350E-01	2.200713E-01	2.303702E-01	-9.996513E-03
17.00	2.310825E-01	2.048082E-01	2.138280E-01	-9.316369E-03
18.00	2.165109E-01	1.910737E-01	1.996993E-01	-8.717099E-03
19.00	2.038350E-01	1.791467E-01	1.874188E-01	-8.205641E-03
20.00	1.926958E-01	1.686727E-01	1.766274E-01	-7.796735E-03
22.00	1.737653E-01	1.508464E-01	1.582681E-01	-7.128328E-03
24.00	1.580317E-01	1.360400E-01	1.429900E-01	-6.622343E-03
26.00	1.446333E-01	1.233996E-01	1.299244E-01	-6.193460E-03
28.00	1.329119E-01	1.123172E-01	1.184529E-01	-5.820045E-03
30.00	1.226112E-01	1.028276E-01	1.083296E-01	-5.473891E-03
32.00	1.134157E-01	9.373342E-02	9.921911E-02	-5.145190E-03
34.00	1.051634E-01	8.541131E-02	9.101680E-02	-4.859944E-03
36.00	9.778414E-02	7.862202E-02	8.356670E-02	-4.566887E-03
38.00	9.087566E-02	7.284064E-02	7.673112E-02	-4.311829E-03
40.00	8.463657E-02	6.603167E-02	7.045805E-02	-4.074660E-03
42.00	7.898132E-02	6.069911E-02	6.467036E-02	-3.847512E-03
44.00	7.361088E-02	5.540083E-02	5.932209E-02	-3.595621E-03
46.00	6.876305E-02	5.071344E-02	5.430079E-02	-3.369670E-03
48.00	6.430769E-02	4.640074E-02	4.984571E-02	-3.137766E-03
50.00	6.019119E-02	4.244693E-02	4.568811E-02	-2.914678E-03
52.00	5.638175E-02	3.880179E-02	4.174136E-02	-2.704150E-03
54.00	5.287802E-02	3.545147E-02	3.813586E-02	-2.505767E-03
56.00	4.963189E-02	3.237458E-02	3.480884E-02	-2.311724E-03
58.00	4.663269E-02	2.954489E-02	3.172561E-02	-2.117816E-03

SCATTERING ANGLE	I1	I2	I3	I4
60.00	4.385303E-02	2.694976E-02	2.883293E-02	-1.929237E-03
62.00	4.128646E-02	2.456946E-02	2.617674E-02	-1.754680E-03
64.00	3.892383E-02	2.239284E-02	2.372637E-02	-1.586007E-03
66.00	3.674265E-02	2.040571E-02	2.145066E-02	-1.417485E-03
68.00	3.471576E-02	1.859253E-02	1.934247E-02	-1.263173E-03
70.00	3.283182E-02	1.694111E-02	1.738625E-02	-1.114962E-03
72.00	3.108542E-02	1.544012E-02	1.557358E-02	-9.866926E-04
74.00	2.946504E-02	1.408045E-02	1.389572E-02	-8.581264E-04
76.00	2.795822E-02	1.285396E-02	1.234078E-02	-7.346444E-04
78.00	2.655603E-02	1.175159E-02	1.090847E-02	-6.195657E-04
80.00	2.525353E-02	1.076400E-02	9.567654E-03	-5.128182E-04
82.00	2.404216E-02	9.881088E-03	8.335642E-03	-4.046753E-04
84.00	2.291312E-02	9.100889E-03	7.195303E-03	-3.101359E-04
86.00	2.186625E-02	8.409646E-03	6.160149E-03	-2.170165E-04
88.00	2.088314E-02	7.804858E-03	5.165451E-03	-1.309394E-04
90.00	1.997296E-02	7.281515E-03	4.264423E-03	-5.015151E-05
92.00	1.912470E-02	6.833177E-03	3.429995E-03	3.140923E-05
94.00	1.833628E-02	6.456121E-03	2.657772E-03	1.062208E-04
96.00	1.759894E-02	6.138508E-03	1.943045E-03	1.776965E-04
98.00	1.691260E-02	5.881664E-03	1.280921E-03	2.471670E-04
100.00	1.627216E-02	5.678807E-03	6.584803E-04	3.124949E-04
102.00	1.567472E-02	5.526387E-03	1.016588E-04	3.748800E-04
104.00	1.511675E-02	5.421314E-03	-4.253527E-04	4.336469E-04
106.00	1.459661E-02	5.358574E-03	-9.154117E-04	4.907217E-04
108.00	1.411121E-02	5.333970E-03	-1.370083E-03	5.465561E-04
110.00	1.365823E-02	5.346625E-03	-1.781994E-03	5.997315E-04
112.00	1.323542E-02	5.390099E-03	-2.183906E-03	6.508468E-04
114.00	1.284120E-02	5.465439E-03	-2.548276E-03	6.980243E-04
116.00	1.247364E-02	5.578231E-03	-2.884804E-03	7.435563E-04
118.00	1.213039E-02	5.694940E-03	-3.208618E-03	7.874670E-04
120.00	1.181094E-02	5.840400E-03	-3.507608E-03	8.291400E-04
122.00	1.151486E-02	6.028451E-03	-3.786680E-03	8.686495E-04
124.00	1.123905E-02	6.212343E-03	-4.053263E-03	9.072154E-04
126.00	1.098582E-02	6.426443E-03	-4.306611E-03	9.446557E-04
128.00	1.075325E-02	6.654827E-03	-4.537238E-03	9.809700E-04
130.00	1.053523E-02	6.902212E-03	-4.758684E-03	1.016815E-03
132.00	1.034640E-02	7.166329E-03	-4.969195E-03	1.051731E-03
134.00	1.016540E-02	7.446751E-03	-5.169769E-03	1.086360E-03
136.00	1.001122E-02	7.743569E-03	-5.361608E-03	1.121413E-03
138.00	9.878827E-03	8.459513E-03	-5.545867E-03	1.157760E-03
140.00	9.769873E-03	8.336356E-03	-5.722823E-03	1.197456E-03
142.00	9.683078E-03	8.756532E-03	-5.893644E-03	1.241887E-03
144.00	9.625124E-03	9.148339E-03	-6.060730E-03	1.291891E-03
146.00	9.593674E-03	9.574461E-03	-6.226378E-03	1.345167E-03
148.00	9.593645E-03	1.002477E-02	-6.393976E-03	1.405039E-03
150.00	9.633116E-03	1.051527E-02	-6.568802E-03	1.472823E-03
152.00	9.723698E-03	1.104773E-02	-6.757700E-03	1.550594E-03
154.00	9.834026E-03	1.162243E-02	-6.978752E-03	1.641732E-03
156.00	1.013766E-02	1.225567E-02	-7.229814E-03	1.753890E-03
158.00	1.052895E-02	1.290959E-02	-7.541867E-03	1.874681E-03
160.00	1.100810E-02	1.354374E-02	-7.940658E-03	1.967692E-03
162.00	1.165389E-02	1.405201E-02	-8.417448E-03	2.029106E-03
164.00	1.200440E-02	1.439962E-02	-8.863364E-03	1.971537E-03
166.00	1.409736E-02	1.480374E-02	-9.220041E-03	1.780220E-03
168.00	1.522054E-02	1.530989E-02	-9.990540E-03	1.705975E-03
170.00	1.617130E-02	1.620054E-02	-1.017280E-02	1.379488E-03
172.00	1.712486E-02	1.735561E-02	-1.075836E-02	1.018801E-03
174.00	1.818236E-02	1.842062E-02	-1.159347E-02	6.237958E-04
176.00	1.980583E-02	2.026406E-02	-1.317297E-02	-1.617099E-05
178.00	1.905643E-02	2.039136E-02	-1.675420E-02	-7.702661E-04
180.00	1.978906E-02	1.978906E-02	-1.978906E-02	-4.573784E-17

TABLE C4. NORMALIZED PHASE MATRIX FOR TYPE A AEROSOLS, MODEL 200, λ=1.60μ

M=1.55-0.01I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.370894E+02	1.370894E+02	1.370894E+02	-1.267919E-13
.10	1.366658E+02	1.366657E+02	1.366656E+02	-6.089243E-03
.20	1.353994E+02	1.354023E+02	1.354009E+02	-2.732230E-02
.30	1.333154E+02	1.333219E+02	1.333187E+02	-6.660492E-02
.40	1.304505E+02	1.304610E+02	1.304561E+02	-1.056100E-01
.50	1.268555E+02	1.268726E+02	1.268640E+02	-1.600220E-01
.60	1.225934E+02	1.226172E+02	1.226051E+02	-2.244001E-01
.70	1.177377E+02	1.177667E+02	1.177520E+02	-2.942420E-01
.80	1.123765E+02	1.124089E+02	1.123890E+02	-3.680726E-01
.90	1.065800E+02	1.066259E+02	1.066020E+02	-4.435270E-01
1.00	1.004509E+02	1.005128E+02	1.004840E+02	-5.187395E-01
1.10	9.410163E+01	9.416133E+01	9.412965E+01	-5.899301E-01
1.20	8.760213E+01	8.766761E+01	8.763215E+01	-6.564054E-01
1.30	8.105107E+01	8.112209E+01	8.108366E+01	-7.160308E-01
1.40	7.453773E+01	7.461147E+01	7.457017E+01	-7.669912E-01
1.50	6.814020E+01	6.821611E+01	6.817273E+01	-8.081360E-01
1.60	6.193192E+01	6.200854E+01	6.196372E+01	-8.386153E-01
1.70	5.597637E+01	5.605223E+01	5.600866E+01	-8.579655E-01
1.80	5.032785E+01	5.040060E+01	5.035508E+01	-8.661167E-01
1.90	4.502607E+01	4.509688E+01	4.505194E+01	-8.633789E-01
2.00	4.010798E+01	4.017360E+01	4.012946E+01	-8.503717E-01
3.00	1.221966E+01	1.228567E+01	1.219690E+01	-6.358706E-01
4.00	6.260149E+00	6.212344E+00	6.224690E+00	-2.135242E-01
5.00	3.502275E+00	3.652601E+00	3.662826E+00	-1.602730E-01
6.00	2.230330E+00	2.176191E+00	2.193301E+00	-9.774267E-02
7.00	1.560516E+00	1.517295E+00	1.533021E+00	-8.166671E-02
8.00	1.114641E+00	1.065304E+00	1.081107E+00	-5.789766E-02
9.00	8.798166E-01	8.333397E-01	8.485821E-01	-4.758903E-02
10.00	6.885765E-01	6.446517E-01	6.587151E-01	-3.844232E-02
11.00	5.756815E-01	5.341120E-01	5.475333E-01	-3.156278E-02
12.00	4.787742E-01	4.400214E-01	4.521537E-01	-2.725207E-02
13.00	4.166628E-01	3.796658E-01	3.912553E-01	-2.234406E-02
14.00	3.654994E-01	3.305701E-01	3.412625E-01	-2.042774E-02
15.00	3.263722E-01	2.916835E-01	3.018856E-01	-1.729713E-02
16.00	2.925243E-01	2.619466E-01	2.707667E-01	-1.574384E-02
17.00	2.662249E-01	2.370256E-01	2.452698E-01	-1.370213E-02
18.00	2.447526E-01	2.173182E-01	2.248595E-01	-1.274085E-02
19.00	2.239462E-01	1.982179E-01	2.049823E-01	-1.162686E-02
20.00	2.090278E-01	1.843391E-01	1.907740E-01	-1.029117E-02
22.00	1.812315E-01	1.596124E-01	1.666334E-01	-8.636162E-03
24.00	1.608990E-01	1.411503E-01	1.455042E-01	-7.365512E-03
26.00	1.435163E-01	1.258336E-01	1.292698E-01	-6.183787E-03
28.00	1.286079E-01	1.123464E-01	1.154680E-01	-5.447917E-03
30.00	1.168362E-01	1.025117E-01	1.043872E-01	-4.769163E-03
32.00	1.062250E-01	9.336017E-02	9.451620E-02	-3.974091E-03
34.00	9.662209E-02	8.510716E-02	8.549760E-02	-3.417039E-03
36.00	8.627609E-02	7.803762E-02	7.785540E-02	-3.022947E-03
38.00	8.147817E-02	7.121041E-02	7.186467E-02	-2.533316E-03
40.00	7.419871E-02	6.501270E-02	6.462930E-02	-2.054306E-03
42.00	6.495295E-02	6.047646E-02	5.878255E-02	-1.773980E-03
44.00	6.260230E-02	5.574421E-02	5.369764E-02	-1.557494E-03
46.00	5.775029E-02	5.141231E-02	4.908353E-02	-1.247110E-03
48.00	5.310433E-02	4.735874E-02	4.464235E-02	-9.529014E-04
50.00	4.879767E-02	4.362398E-02	4.056646E-02	-7.836760E-04
52.00	4.503912E-02	4.023280E-02	3.690801E-02	-6.706840E-04
54.00	4.152082E-02	3.711172E-02	3.360465E-02	-5.027186E-04
56.00	3.840167E-02	3.419960E-02	3.046925E-02	-3.050525E-04
58.00	3.546554E-02	3.150313E-02	2.752668E-02	-1.823675E-04

SCATTERING ANGLE	I1	I2	I3	I4
60.00	3.274830E-02	2.902733E-02	2.486130E-02	-1.273789E-04
62.00	3.037273E-02	2.674844E-02	2.246813E-02	-6.086339E-05
64.00	2.817819E-02	2.463941E-02	2.024496E-02	7.801347E-05
66.00	2.609049E-02	2.269417E-02	1.814030E-02	1.645106E-04
68.00	2.418367E-02	2.090862E-02	1.620740E-02	2.387943E-04
70.00	2.259616E-02	1.926552E-02	1.447152E-02	2.707734E-04
72.00	2.100013E-02	1.775158E-02	1.290034E-02	3.378423E-04
74.00	1.958145E-02	1.630694E-02	1.144082E-02	4.213230E-04
76.00	1.825402E-02	1.510669E-02	1.007888E-02	4.682265E-04
78.00	1.707224E-02	1.395027E-02	8.866881E-03	4.761645E-04
80.00	1.602210E-02	1.286672E-02	7.773643E-03	4.900643E-04
82.00	1.504542E-02	1.142219E-02	6.772545E-03	5.294195E-04
84.00	1.412163E-02	1.105769E-02	5.640163E-03	5.450819E-04
86.00	1.328034E-02	1.027821E-02	4.997027E-03	5.363255E-04
88.00	1.253492E-02	9.550135E-03	4.248742E-03	5.264869E-04
90.00	1.185021E-02	8.912360E-03	3.565623E-03	5.410904E-04
92.00	1.120500E-02	8.340446E-03	2.930002E-03	5.531013E-04
94.00	1.060190E-02	7.866466E-03	2.352619E-03	5.456076E-04
96.00	1.009977E-02	7.391089E-03	1.846820E-03	5.634096E-04
98.00	9.621658E-03	6.934640E-03	1.383351E-03	5.610395E-04
100.00	9.183616E-03	6.659477E-03	9.550149E-04	5.747534E-04
102.00	8.780725E-03	6.367370E-03	5.737095E-04	5.772933E-04
104.00	8.435432E-03	6.109714E-03	2.300565E-04	5.889539E-04
106.00	8.111251E-03	5.897716E-03	-7.453360E-05	6.096294E-04
108.00	7.611323E-03	5.725049E-03	-3.592466E-04	6.208100E-04
110.00	7.543248E-03	5.573876E-03	-6.117929E-04	6.283045E-04
112.00	7.240130E-03	5.451803E-03	-8.410958E-04	6.443625E-04
114.00	7.068663E-03	5.365762E-03	-1.056460E-03	6.580057E-04
116.00	6.860706E-03	5.302612E-03	-1.249306E-03	6.685776E-04
118.00	6.674006E-03	5.263296E-03	-1.423842E-03	6.868245E-04
120.00	6.502303E-03	5.257294E-03	-1.585546E-03	7.096003E-04
122.00	6.349817E-03	5.274927E-03	-1.730360E-03	7.326465E-04
124.00	6.217461E-03	5.314607E-03	-1.858565E-03	7.654595E-04
126.00	6.100941E-03	5.383456E-03	-1.975722E-03	8.047690E-04
128.00	6.002932E-03	5.475225E-03	-2.077194E-03	8.463766E-04
130.00	5.923968E-03	5.589630E-03	-2.165127E-03	8.973797E-04
132.00	5.861572E-03	5.734884E-03	-2.242820E-03	9.547930E-04
134.00	5.818405E-03	5.907060E-03	-2.304855E-03	1.017576E-03
136.00	5.794445E-03	6.111670E-03	-2.362676E-03	1.091026E-03
138.00	5.790082E-03	6.334615E-03	-2.410183E-03	1.173524E-03
140.00	5.808236E-03	6.636671E-03	-2.450125E-03	1.268780E-03
142.00	5.851742E-03	6.966394E-03	-2.486314E-03	1.374313E-03
144.00	5.928341E-03	7.357850E-03	-2.520147E-03	1.511976E-03
146.00	6.046479E-03	7.820106E-03	-2.556669E-03	1.675384E-03
148.00	6.210766E-03	8.374927E-03	-2.601694E-03	1.874615E-03
150.00	6.465949E-03	9.033210E-03	-2.664561E-03	2.122927E-03
152.00	6.815132E-03	9.819389E-03	-2.763548E-03	2.433945E-03
154.00	7.311146E-03	1.075673E-02	-2.920146E-03	2.824102E-03
156.00	8.041704E-03	1.186656E-02	-3.163915E-03	3.318078E-03
158.00	9.106403E-03	1.312121E-02	-3.547161E-03	3.928047E-03
160.00	1.063454E-02	1.439654E-02	-4.111127E-03	4.587968E-03
162.00	1.275432E-02	1.540782E-02	-4.817100E-03	5.136671E-03
164.00	1.551764E-02	1.606433E-02	-5.361673E-03	5.493339E-03
166.00	1.864213E-02	1.688341E-02	-5.547425E-03	5.815527E-03
168.00	2.151707E-02	1.810970E-02	-5.722922E-03	5.729491E-03
170.00	2.325774E-02	1.937844E-02	-5.948942E-03	5.051933E-03
172.00	2.447033E-02	2.265008E-02	-5.382031E-03	4.132653E-03
174.00	2.573452E-02	2.588856E-02	-6.351021E-03	2.763954E-03
176.00	2.662052E-02	2.913066E-02	-9.239196E-03	5.674259E-04
178.00	2.441041E-02	2.629627E-02	-1.904656E-02	-2.327819E-03
180.00	2.678005E-02	2.678005E-02	-2.678065E-02	-7.684526E-17

TABLE C5. NORMALIZED PHASE MATRIX FOR TYPE A AEROSOLS, MODEL 500, λ=0.45μ

M=1.55-0.01I

SCATTERING ANGLE	11	12	13	14
0.00	1.313673E+02	1.313678E+02	1.313470E+02	-1.272322E-13
.10	1.273804E+02	1.273876E+02	1.273070E+02	-2.081073E-02
.20	1.162738E+02	1.162742E+02	1.162721E+02	-7.683706E-02
.30	1.008035E+02	1.008713E+02	1.008673E+02	-1.470299E-01
.40	8.193394E+01	8.194175E+01	8.193552E+01	-2.119209E-01
.50	6.338290E+01	6.339540E+01	6.338832E+01	-2.522453E-01
.60	4.785828E+01	4.785763E+01	4.785299E+01	-2.629641E-01
.70	3.534522E+01	3.535420E+01	3.534044E+01	-2.409841E-01
.80	2.652029E+01	2.652010E+01	2.652172E+01	-2.165930E-01
.90	2.055976E+01	2.055945E+01	2.055554E+01	-1.837050E-01
1.00	1.657718E+01	1.657734E+01	1.657500E+01	-1.580011E-01
1.10	1.379333E+01	1.379169E+01	1.379695E+01	-1.374302E-01
1.20	1.157235E+01	1.166954E+01	1.166930E+01	-1.243626E-01
1.30	9.959712E+00	9.940969E+00	9.947207E+00	-1.148129E-01
1.40	8.539752E+00	8.539115E+00	8.539875E+00	-1.046666E-01
1.50	7.413071E+00	7.408265E+00	7.409406E+00	-9.411947E-02
1.60	6.537737E+00	6.531665E+00	6.533150E+00	-8.594960E-02
1.70	5.851027E+00	5.845254E+00	5.847920E+00	-7.778063E-02
1.80	5.289737E+00	5.282836E+00	5.284805E+00	-7.247971E-02
1.90	4.803529E+00	4.730410E+00	4.798010E+00	-6.840744E-02
2.00	4.372313E+00	4.385263E+00	4.367419E+00	-6.689242E-02
3.00	2.190247E+00	2.188173E+00	2.190017E+00	-3.922548E-02
4.00	1.508947E+00	1.451333E+00	1.463649E+00	-2.899137E-02
5.00	1.136942E+00	1.129348E+00	1.131036E+00	-2.200604E-02
6.00	9.517937E-01	9.496870E-01	9.408491E-01	-2.013302E-02
7.00	[illegible]337619E-01	8.260094E-01	8.289015E-01	-1.858162E-02
8.00	[illegible]304679E-01	7.437934E-01	7.456241E-01	-1.788330E-02
9.00	6.881743E-01	6.815346E-01	6.832873E-01	-1.714128E-02
10.00	6.348582E-01	6.321948E-01	6.338890E-01	-1.687794E-02
11.00	[illegible]480849E-01	5.913469E-01	5.929485E-01	-1.640162E-02
12.00	[illegible]	5.563172E-01	5.578564E-01	-1.679420E-02
13.00	5.326[illegible]E-01	5.258030E-01	5.271603E-01	-1.602558E-02
14.00	[illegible]	4.981662E-01	4.996967E-01	-1.688429E-02
15.00	4.816044E-01	4.733137E-01	4.746950E-01	-1.690331E-02
16.00	4.587[illegible]E-01	4.505396E-01	4.522110E-01	-1.692597E-02
17.00	4.381[illegible]	4.294701E-01	4.312719E-01	-1.692338E-02
18.00	4.150993[illegible]	4.098561E-01	4.118415E-01	-1.689956E-02
19.00	4.013405E-01	3.915262E-01	3.937667E-01	-1.665250E-02
20.00	3.847269E-01	3.742381E-01	3.767629E-01	-1.679189E-02
22.00	3.543789E-01	3.426295E-01	3.455750E-01	-1.662773E-02
24.00	3.272411E-01	3.141276E-01	3.176415E-01	-1.642779E-02
26.00	3.627633E-01	2.882217E-01	2.923019E-01	-1.620348E-02
28.00	2.803293E-01	2.645063E-01	2.691261E-01	-1.595476E-02
30.00	2.596146E-01	2.426990E-01	2.478694E-01	-1.567343E-02
32.00	2.409630E-01	2.225894E-01	2.281489E-01	-1.535353E-02
34.00	2.235417E-01	2.040085E-01	2.099532E-01	-1.499213E-02
36.00	2.074774E-01	1.866291E-01	1.931168E-01	-1.459302E-02
38.00	1.926347E-01	1.709533E-01	1.775206E-01	-1.415565E-02
40.00	1.789207E-01	1.562956E-01	1.631054E-01	-1.368124E-02
42.00	1.662522E-01	1.427037E-01	1.497670E-01	-1.317405E-02
44.00	1.545519E-01	1.303353E-01	1.374483E-01	-1.264116E-02
46.00	1.437431E-01	1.189042E-01	1.260520E-01	-1.208832E-02
48.00	1.337595E-01	1.083626E-01	1.155375E-01	-1.151809E-02
50.00	1.245508E-01	9.870586E-02	1.058331E-01	-1.093752E-02
52.00	1.163302E-01	8.985517E-02	9.688222E-02	-1.035202E-02
54.00	1.081770E-01	8.175652E-02	8.863420E-02	-9.764127E-03
56.00	1.009319E-01	7.436378E-02	8.103686E-02	-9.176276E-03
58.00	9.424969E-02	6.761695E-02	7.404766E-02	-8.592614E-03

SCATTERING ANGLE	11	12	13	14
60.00	8.660137E-02	6.146961E-02	6.761387E-02	-8.018113E-03
62.00	8.[illegible]024E-02	5.537410E-02	6.163277E-02	-7.465[illegible]E-03
64.00	7.712377E-02	5.078583E-02	5.524765E-02	-6.96776[illegible]E-03
66.00	7.225477E-02	4.616963E-02	5.122117E-02	-6.377273E-03
68.00	6.777736E-02	4.130531E-02	4.606093E-02	-5.801595E-03
70.00	6.3[illegible]53E-02	3.820353E-02	4.235744E-02	-5.366673E-03
72.00	5.971134E-02	3.476706E-02	3.844765E-02	-4.875247E-03
74.00	5.613302E-02	3.176056E-02	3.494690E-02	-4.436012E-03
76.00	5.251067E-02	2.833398E-02	3.153731E-02	-3.954593E-03
78.00	4.972767E-02	2.644435E-02	2.840844E-02	-3.520901E-03
80.00	4.685951E-02	2.422574E-02	2.554206E-02	-3.163557E-03
82.00	4.422535E-02	2.222847E-02	2.303851E-02	-2.762402E-03
84.00	4.175795E-02	2.045511E-02	2.071912E-02	-2.318862E-03
86.00	3.945399E-02	1.888271E-02	1.852463E-02	-1.946641E-03
88.00	3.733176E-02	1.749312E-02	1.650632E-02	-1.591406E-03
90.00	3.534936E-02	1.627327E-02	1.464343E-02	-1.249385E-03
92.00	3.356632E-02	1.520863E-02	1.292653E-02	-9.250143E-04
94.00	3.179594E-02	1.426049E-02	1.134453E-02	-6.034245E-04
96.00	3.020717E-02	1.349367E-02	9.885373E-03	-2.969137E-04
98.00	2.873001E-02	1.281607E-02	8.539126E-03	-7.319629E-06
100.00	2.735673E-02	1.225312E-02	7.296242E-03	2.710650E-04
102.00	2.609433E-02	1.170814E-02	6.147200E-03	5.367571E-04
104.00	2.493133E-02	1.124257E-02	5.084[illegible]E-03	7.908465E-04
106.00	2.386037E-02	1.112743E-02	4.161246E-03	1.033380E-03
108.00	2.274475E-02	1.091565E-02	3.165120E-03	1.263502E-03
110.00	2.184135E-02	1.077527E-02	2.341144E-03	1.481422E-03
112.00	2.096024E-02	1.076128E-02	1.552552E-03	1.696301E-03
114.00	2.015541E-02	1.068878E-02	8.160834E-04	1.878059E-03
116.00	1.944650E-02	1.073464E-02	1.262105E-04	2.050872E-03
118.00	1.874078E-02	1.083256E-02	-5.222230E-04	2.223240E-03
120.00	1.808455E-02	1.098695E-02	-1.133462E-03	2.377791E-03
122.00	1.760900E-02	1.117040E-02	-1.711107E-03	2.520794E-03
124.00	1.713107E-02	1.141659E-02	-2.259924E-03	2.652187E-03
126.00	1.661833E-02	1.169892E-02	-2.783654E-03	2.771512E-03
128.00	1.619027E-02	1.232060E-02	-3.265938E-03	2.877973E-03
130.00	1.553919E-02	1.238122E-02	-3.770743E-03	2.971619E-03
132.00	1.5[illegible]E-02	1.278118E-02	-4.241104E-03	3.052692E-03
134.00	1.481990E-02	1.322025E-02	-4.708226E-03	3.122360E-03
136.00	1.451934E-02	1.369864E-02	-5.147468E-03	3.179610E-03
138.00	1.421695E-02	1.421052E-02	-5.592265E-03	3.224027E-03
140.00	1.393918E-02	1.476214E-02	-6.031405E-03	3.255187E-03
142.00	1.362206E-02	1.535353E-02	-6.478039E-03	3.272987E-03
144.00	1.372032E-02	1.598822E-02	-6.914413E-03	3.276451E-03
146.00	1.363657E-02	1.666197E-02	-7.366788E-03	3.261726E-03
148.00	1.354688E-02	1.737509E-02	-7.833636E-03	3.221621E-03
150.00	1.353505E-02	1.811902E-02	-8.322714E-03	3.146147E-03
152.00	1.361975E-02	1.856599E-02	-8.843196E-03	3.020643E-03
154.00	1.369555E-02	1.909306E-02	-9.406641E-03	2.826572E-03
156.00	1.381948E-02	2.029056E-02	-1.063727E-02	2.543329E-03
158.00	1.408375E-02	2.089150E-02	-1.075321E-02	2.155239E-03
160.00	1.430006E-02	2.136056E-02	-1.150394E-02	1.656626E-03
162.00	1.475693E-02	2.170137E-02	-1.254568E-02	1.062795E-03
164.00	1.540156E-02	2.196041E-02	-1.364845E-02	4.407803E-04
166.00	1.654402E-02	2.222228E-02	-1.491830E-02	-6.143312E-05
168.00	1.733377E-02	2.279915E-02	-1.641301E-02	-4.313896E-04
170.00	1.951039E-02	2.357582E-02	-1.813560E-02	-6.563239E-04
172.00	2.153034E-02	2.450923E-02	-2.006202E-02	-7.401358E-04
174.00	2.340110E-02	2.572749E-02	-2.214409E-02	-7.135912E-04
176.00	2.530007E-02	2.679153E-02	-2.432143E-02	-6.142112E-04
178.00	2.670994E-02	2.738326E-02	-2.650797E-02	-4.035430E-04
180.00	2.750348E-02	2.758048E-02	-2.758048E-02	-3.180469E-17

TABLE C6. NORMALIZED PHASE MATRIX FOR TYPE A AEROSOLS, MODEL 500, λ=0.55μ

M=1.55-0.01I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.157640E+02	1.157640E+02	1.157640E+02	-1.067524E-13
.10	1.134093E+02	1.134093E+02	1.134085E+02	-1.907576E-02
.20	1.066507E+02	1.066542E+02	1.066524E+02	-1.673054E-02
.30	9.635541E+01	9.636253E+01	9.635069E+01	-1.152895E-01
.40	8.376838E+01	8.377881E+01	8.377322E+01	-1.777904E-01
.50	7.027023E+01	7.028971E+01	7.028252E+01	-2.313062E-01
.60	5.716395E+01	5.717572E+01	5.717096E+01	-2.668782E-01
.70	4.541718E+01	4.543156E+01	4.542323E+01	-2.804300E-01
.80	3.561738E+01	3.563050E+01	3.562276E+01	-2.737081E-01
.90	2.793653E+01	2.794649E+01	2.794190E+01	-2.524709E-01
1.00	2.222638E+01	2.222727E+01	2.222270E+01	-2.241999E-01
1.10	1.810684E+01	1.810419E+01	1.810048E+01	-1.956671E-01
1.20	1.514017E+01	1.514695E+01	1.514652E+01	-1.713473E-01
1.30	1.290264E+01	1.296144E+01	1.296002E+01	-1.520534E-01
1.40	1.125632E+01	1.125369E+01	1.125301E+01	-1.396039E-01
1.50	9.847739E+00	9.844040E+00	9.843906E+00	-1.293310E-01
1.60	8.650020E+00	8.546764E+00	8.546363E+00	-1.234867E-01
1.70	7.634436E+00	7.629037E+00	7.629726E+00	-1.117922E-01
1.80	6.782637E+00	6.781917E+00	6.782982E+00	-1.030518E-01
1.90	6.090972E+00	6.090102E+00	6.091528E+00	-9.474029E-02
2.00	5.532932E+00	5.527341E+00	5.529586E+00	-8.749591E-02
3.00	2.923425E+00	2.683120E+00	2.685913E+00	-5.351614E-02
4.00	1.632973E+00	1.633486E+00	1.596645E+00	-3.797396E-02
5.00	1.255096E+00	1.245518E+00	1.248695E+00	-2.960842E-02
6.00	1.015136E+00	1.006239E+00	1.005963E+00	-2.467085E-02
7.00	8.170610E-01	8.585331E-01	8.610365E-01	-2.193215E-02
8.00	7.561861E-01	7.576160E-01	7.596931E-01	-2.022411E-02
9.00	6.913367E-01	6.833633E-01	6.854613E-01	-1.907852E-02
10.00	6.346349E-01	6.284786E-01	6.283215E-01	-1.831894E-02
11.00	6.062600E-01	5.865009E-01	5.822791E-01	-1.781597E-02
12.00	5.502239E-01	5.422853E-01	5.439607E-01	-1.748450E-02
13.00	5.173346E-01	5.050906E-01	5.111112E-01	-1.726630E-02
14.00	4.880641E-01	4.507021E-01	4.822105E-01	-1.711743E-02
15.00	4.631320E-01	4.549152E-01	4.564711E-01	-1.698803E-02
16.00	4.433904E-01	4.315752E-01	4.331633E-01	-1.685886E-02
17.00	4.191052E-01	4.107227E-01	4.118912E-01	-1.673105E-02
18.00	3.993107E-01	3.905029E-01	3.922926E-01	-1.660305E-02
19.00	3.819330E-01	3.721550E-01	3.741014E-01	-1.646481E-02
20.00	3.653067E-01	3.550963E-01	3.571360E-01	-1.630969E-02
22.00	3.351040E-01	3.237462E-01	3.263213E-01	-1.595339E-02
24.00	3.085032E-01	2.958946E-01	2.989653E-01	-1.554868E-02
26.00	2.847958E-01	2.708394E-01	2.744715E-01	-1.511582E-02
28.00	2.634231E-01	2.483444E-01	2.522642E-01	-1.465572E-02
30.00	2.440713E-01	2.274719E-01	2.321115E-01	-1.418620E-02
32.00	2.264392E-01	2.083559E-01	2.136909E-01	-1.371547E-02
34.00	2.103467E-01	1.911861E-01	1.967762E-01	-1.324769E-02
36.00	1.955598E-01	1.752011E-01	1.811993E-01	-1.277684E-02
38.00	1.819174E-01	1.604686E-01	1.668240E-01	-1.229962E-02
40.00	1.694224E-01	1.468792E-01	1.535382E-01	-1.181567E-02
42.00	1.570592E-01	1.343412E-01	1.412467E-01	-1.132282E-02
44.00	1.471854E-01	1.227797E-01	1.298797E-01	-1.082046E-02
46.00	1.373362E-01	1.121285E-01	1.193640E-01	-1.030994E-02
48.00	1.282303E-01	1.023277E-01	1.096393E-01	-9.794299E-03
50.00	1.198249E-01	9.331633E-02	1.006470E-01	-9.274687E-03
52.00	1.120662E-01	8.503797E-02	9.233292E-02	-8.753523E-03
54.00	1.049908E-01	7.744064E-02	8.464757E-02	-8.234758E-03
56.00	9.327174E-02	7.047610E-02	7.754341E-02	-7.722304E-03
58.00	9.214639E-02	6.410237E-02	7.097643E-02	-7.217755E-03

SCATTERING ANGLE	I1	I2	I3	I4
60.00	[illegible]	5.827717E-02	6.493098E-02	-6.722257E-03
62.00	8.123789E-02	5.290022E-02	5.929550E-02	-6.236950E-03
64.00	7.630102E-02	4.811634E-02	5.410749E-02	-5.762119E-03
66.00	7.165117E-02	4.376452E-02	4.931632E-02	-5.298489E-03
68.00	6.771147E-02	3.967914E-02	4.467117E-02	-4.846976E-03
70.00	6.384979E-02	3.600348E-02	4.077645E-02	-4.405689E-03
72.00	6.027127E-02	3.278335E-02	3.693773E-02	-3.977334E-03
74.00	5.690339E-02	2.931748E-02	3.346918E-02	-3.563725E-03
76.00	5.387439E-02	2.714732E-02	3.025448E-02	-3.165174E-03
78.00	5.101346E-02	2.475114E-02	2.725515E-02	-2.783983E-03
80.00	4.836630E-02	2.260864E-02	2.450159E-02	-2.416397E-03
82.00	4.590714E-02	2.039862E-02	2.194111E-02	-2.063185E-03
84.00	4.359134E-02	1.872255E-02	1.958231E-02	-1.724542E-03
86.00	4.140757E-02	1.752203E-02	1.739469E-02	-1.402053E-03
88.00	3.947331E-02	1.613363E-02	1.536917E-02	-1.092472E-03
90.00	3.702095E-02	1.503319E-02	1.349723E-02	-7.956475E-04
92.00	3.513562E-02	1.403751E-02	1.173439E-02	-5.192750E-04
94.00	3.426456E-02	1.310471E-02	1.014175E-02	-2.524438E-04
96.00	3.270306E-02	1.224353E-02	8.645256E-03	8.999684E-07
98.00	3.131954E-02	1.148383E-02	7.254980E-03	2.433301E-04
100.00	3.037132E-02	1.137333E-02	5.953173E-03	4.749365E-04
102.00	2.905275E-02	1.030309E-02	4.701670E-03	6.949424E-04
104.00	2.771467E-02	1.053037E-02	3.643165E-03	9.033536E-04
106.00	2.600219E-02	1.040946E-02	2.604904E-03	1.100195E-03
108.00	2.559205E-02	1.030626E-02	1.626065E-03	1.286610E-03
110.00	2.473251E-02	1.031067E-02	7.167332E-04	1.462162E-03
112.00	2.335374E-02	1.033216E-02	-1.322126E-04	1.628359E-03
114.00	2.330933E-02	1.041225E-02	-9.299112E-04	1.785073E-03
116.00	2.233069E-02	1.055150E-02	-1.679264E-03	1.933033E-03
118.00	2.166012E-02	1.074708E-02	-2.384251E-03	2.071204E-03
120.00	2.053766E-02	1.077091E-02	-3.049189E-03	2.202293E-03
122.00	2.013032E-02	1.129462E-02	-3.677460E-03	2.325371E-03
124.00	1.938090E-02	1.163396E-02	-4.272770E-03	2.441616E-03
126.00	1.929149E-02	1.202156E-02	-4.836693E-03	2.543724E-03
128.00	1.835061E-02	1.249265E-02	-5.373947E-03	2.649677E-03
130.00	1.800014E-02	1.292617E-02	-5.857245E-03	2.741430E-03
132.00	1.772305E-02	1.342749E-02	-6.379119E-03	2.825771E-03
134.00	1.752332E-02	1.337039E-02	-6.852282E-03	2.961983E-03
136.00	1.737942E-02	1.463533E-02	-7.309223E-03	2.973136E-03
138.00	1.713020E-02	1.522580E-02	-7.752142E-03	3.039343E-03
140.00	1.703111E-02	1.553924E-02	-8.183473E-03	3.098511E-03
142.00	1.671094E-02	1.601039E-02	-8.566903E-03	3.147520E-03
144.00	1.659091E-02	1.735020E-02	-8.927224E-03	3.161120E-03
146.00	1.646046E-02	1.813865E-02	-9.456907E-03	3.194395E-03
148.00	1.639405E-02	1.935098E-02	-9.600949E-03	3.174943E-03
150.00	1.633472E-02	1.989960E-02	-1.034707E-02	3.110317E-03
152.00	1.634104E-02	2.075506E-02	-1.086173E-02	2.965385E-03
154.00	1.635117E-02	2.157827E-02	-1.146459E-02	2.767345E-03
156.00	1.640701E-02	2.242682E-02	-1.204401E-02	2.563203E-03
158.00	1.653267E-02	2.304303E-02	-1.279617E-02	2.125470E-03
160.00	1.773463E-02	2.331599E-02	-1.303775E-02	1.658635E-03
162.00	1.744362E-02	2.403373E-02	-1.466648E-02	1.117335E-03
164.00	1.821249E-02	2.433262E-02	-1.562047E-02	5.613755E-04
166.00	1.940006E-02	2.451064E-02	-1.711714E-02	1.230702E-04
168.00	2.013647E-02	2.540840E-02	-1.861213E-02	-1.620337E-04
170.00	2.256436E-02	2.637603E-02	-2.032175E-02	-3.670463E-04
172.00	2.540216E-02	2.743491E-02	-2.224574E-02	-5.167073E-04
174.00	2.647021E-02	2.670067E-02	-2.434968E-02	-1.653514E-04
176.00	2.724358E-02	2.903466E-02	-2.669050E-02	-6.235160E-04
178.00	2.921547E-02	3.043379E-02	-2.927330E-02	-4.941190E-04
180.00	2.943306E-02	3.060334E-02	-3.063350E-02	-3.359347E-17

TABLE C7. NORMALIZED PHASE MATRIX FOR TYPE A AEROSOLS, MODEL 500, λ=0.70μ

N=1.55-0.01I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	9.781707E+01	9.781707E+01	9.781707E+01	-9.268100E-14
.10	9.657074E+01	9.657951E+01	9.657914E+01	-1.000509E-02
.20	9.296563E+01	9.296845E+01	9.296703E+01	-3.853294E-02
.30	8.726976E+01	8.727566E+01	8.727267E+01	-8.139440E-02
.40	7.993065E+01	7.994593E+01	7.994100E+01	-1.324597E-01
.50	7.150901E+01	7.152200E+01	7.151523E+01	-1.847467E-01
.60	6.256462E+01	6.258031E+01	6.257195E+01	-2.316107E-01
.70	5.364969E+01	5.366744E+01	5.365774E+01	-2.677968E-01
.80	4.522817E+01	4.524653E+01	4.523617E+01	-2.901574E-01
.90	3.764272E+01	3.766342E+01	3.765001E+01	-2.979281E-01
1.00	3.109910E+01	3.111907E+01	3.110519E+01	-2.924930E-01
1.10	2.566992E+01	2.568323E+01	2.567433E+01	-2.759007E-01
1.20	2.131492E+01	2.132478E+01	2.131716E+01	[illegible]
1.30	1.791091E+01	1.791603E+01	1.791103E+01	-2.306243E-01
1.40	1.529115E+01	1.529534E+01	1.529053E+01	-2.078201E-01
1.50	1.327494E+01	1.327658E+01	1.327303E+01	-1.862937E-01
1.60	1.169613E+01	1.169569E+01	1.169320E+01	-1.693513E-01
1.70	1.041962E+01	1.041756E+01	1.041591E+01	-1.562243E-01
1.80	9.348130E+00	9.344814E+00	9.343820E+00	-1.460072E-01
1.90	8.420458E+00	8.416130E+00	8.415646E+00	-1.376695E-01
2.00	7.603901E+00	7.598713E+00	7.598653E+00	-1.302104E-01
3.00	3.514049E+00	3.503871E+00	3.506431E+00	-7.615973E-02
4.00	2.129515E+00	2.114380E+00	2.117461E+00	-5.397104E-02
5.00	1.495727E+00	1.484380E+00	1.487618E+00	-4.104714E-02
6.00	1.155101E+00	1.147976E+00	1.151116E+00	-3.347087E-02
7.00	9.561258E-01	9.453204E-01	9.482946E-01	-2.844485E-02
8.00	8.233437E-01	8.129187E-01	8.156796E-01	-2.526354E-02
9.00	7.249010E-01	7.188489E-01	7.213733E-01	-2.313013E-02
10.00	6.579154E-01	6.481884E-01	6.504610E-01	-2.163330E-02
11.00	6.020826E-01	5.926145E-01	5.946946E-01	-2.054011E-02
12.00	5.567100E-01	5.474256E-01	5.493209E-01	-1.969221E-02
13.00	5.130356E-01	5.096377E-01	5.113784E-01	-1.902934E-02
14.00	4.863959E-01	4.772806E-01	4.788989E-01	-1.849485E-02
15.00	4.581407E-01	4.491542E-01	4.505472E-01	-1.806621E-02
16.00	4.330282E-01	4.238284E-01	4.253078E-01	-1.771523E-02
17.00	4.103994E-01	4.010705E-01	4.025382E-01	-1.741289E-02
18.00	3.897737E-01	3.802626E-01	3.817583E-01	-1.713621E-02
19.00	3.706397E-01	3.610852E-01	3.626443E-01	-1.687038E-02
20.00	3.533443E-01	3.433036E-01	3.449574E-01	-1.661221E-02
22.00	3.219389E-01	3.112088E-01	3.131168E-01	-1.609918E-02
24.00	2.943962E-01	2.828626E-01	2.850731E-01	-1.557298E-02
26.00	2.699025E-01	2.575476E-01	2.600921E-01	-1.500295E-02
28.00	2.482120E-01	2.347970E-01	2.376987E-01	-1.438835E-02
30.00	2.287228E-01	2.142641E-01	2.175408E-01	-1.374462E-02
32.00	2.111948E-01	1.956368E-01	1.993136E-01	-1.308403E-02
34.00	1.953639E-01	1.787385E-01	1.827659E-01	-1.241989E-02
36.00	1.810787E-01	1.633578E-01	1.677592E-01	-1.176134E-02
38.00	1.680961E-01	1.493147E-01	1.540590E-01	-1.111953E-02
40.00	1.562824E-01	1.364785E-01	1.415360E-01	-1.049898E-02
42.00	1.455008E-01	1.247240E-01	1.300577E-01	-9.898482E-03
44.00	1.356399E-01	1.139455E-01	1.195146E-01	-9.318597E-03
46.00	1.266087E-01	1.040585E-01	1.098198E-01	-8.760923E-03
48.00	1.183216E-01	9.498664E-02	1.008938E-01	-8.226419E-03
50.00	1.106982E-01	8.656612E-02	9.266107E-02	-7.714675E-03
52.00	1.036761E-01	7.903860E-02	8.505933E-02	-7.222919E-03
54.00	9.720670E-02	7.202847E-02	7.803591E-02	-6.746920E-03
56.00	9.124135E-02	6.561643E-02	7.154216E-02	-6.291019E-03
58.00	8.573044E-02	5.973147E-02	6.553265E-02	-5.846632E-03

SCATTERING ANGLE	I1	I2	I3	I4
60.00	8.063639E-02	5.435124E-02	5.997033E-02	-5.415876E-03
62.00	7.593201E-02	4.943498E-02	5.482236E-02	-4.997865E-03
64.00	7.158032E-02	4.495027E-02	5.005662E-02	-4.595368E-03
66.00	6.756237E-02	4.086653E-02	4.564259E-02	-4.205249E-03
68.00	6.382113E-02	3.715229E-02	4.155281E-02	-3.826390E-03
70.00	6.036316E-02	3.377938E-02	3.776325E-02	-3.460231E-03
72.00	5.715730E-02	3.072286E-02	3.425106E-02	-3.108030E-03
74.00	5.418372E-02	2.796092E-02	3.099596E-02	-2.769347E-03
76.00	5.142321E-02	2.547229E-02	2.797811E-02	-2.444580E-03
78.00	4.885876E-02	2.323758E-02	2.517889E-02	-2.134204E-03
80.00	4.647422E-02	2.123844E-02	2.258051E-02	-1.837116E-03
82.00	4.425433E-02	1.945628E-02	2.016750E-02	-1.551019E-03
84.00	4.218600E-02	1.787317E-02	1.792613E-02	-1.276301E-03
86.00	4.026022E-02	1.647487E-02	1.584353E-02	-1.013942E-03
88.00	3.846551E-02	1.524367E-02	1.390729E-02	-7.618905E-04
90.00	3.679208E-02	1.418452E-02	1.210616E-02	-5.266932E-04
92.00	3.523315E-02	1.326788E-02	1.042939E-02	-2.893477E-04
94.00	3.377916E-02	1.248586E-02	8.867681E-03	-6.687877E-05
96.00	3.242339E-02	1.183103E-02	7.412159E-03	1.463340E-04
98.00	3.115924E-02	1.129362E-02	6.055448E-03	3.511819E-04
100.00	2.998018E-02	1.086336E-02	4.790842E-03	5.472306E-04
102.00	2.888072E-02	1.053514E-02	3.611142E-03	7.344798E-04
104.00	2.785666E-02	1.030367E-02	2.508934E-03	9.139025E-04
106.00	2.690172E-02	1.015153E-02	1.476085E-03	1.085780E-03
108.00	2.601201E-02	1.008073E-02	5.146467E-04	1.249471E-03
110.00	2.518474E-02	1.008296E-02	-3.881092E-04	1.405343E-03
112.00	2.441316E-02	1.015344E-02	-1.233824E-03	1.552297E-03
114.00	2.369495E-02	1.026756E-02	-2.026659E-03	1.691269E-03
116.00	2.302692E-02	1.048141E-02	-2.775276E-03	1.822607E-03
118.00	2.240835E-02	1.073076E-02	-3.479069E-03	1.947674E-03
120.00	2.183193E-02	1.103272E-02	-4.142661E-03	2.067057E-03
122.00	2.133217E-02	1.138629E-02	-4.768527E-03	2.181507E-03
124.00	2.081558E-02	1.179017E-02	-5.359222E-03	2.291492E-03
126.00	2.037354E-02	1.224238E-02	-5.916905E-03	2.398781E-03
128.00	1.996536E-02	1.274102E-02	-6.443410E-03	2.502512E-03
130.00	1.959902E-02	1.328505E-02	-6.941336E-03	2.602854E-03
132.00	1.927657E-02	1.387417E-02	-7.413970E-03	2.699135E-03
134.00	1.897820E-02	1.450814E-02	-7.864444E-03	2.790958E-03
136.00	1.872601E-02	1.518657E-02	-8.296469E-03	2.875635E-03
138.00	1.849347E-02	1.590837E-02	-8.713904E-03	2.952018E-03
140.00	1.829592E-02	1.667135E-02	-9.121333E-03	3.016923E-03
142.00	1.812946E-02	1.747265E-02	-9.524723E-03	3.065257E-03
144.00	1.798673E-02	1.830919E-02	-9.931904E-03	3.092916E-03
146.00	1.786128E-02	1.917514E-02	-1.035210E-02	3.094407E-03
148.00	1.776977E-02	2.006384E-02	-1.079653E-02	3.064398E-03
150.00	1.771695E-02	2.096762E-02	-1.127641E-02	2.997540E-03
152.00	1.772236E-02	2.187773E-02	-1.180123E-02	2.886561E-03
154.00	1.779709E-02	2.278326E-02	-1.241473E-02	2.733038E-03
156.00	1.799513E-02	2.366738E-02	-1.310518E-02	2.527183E-03
158.00	1.818659E-02	2.449860E-02	-1.390508E-02	2.262434E-03
160.00	1.862608E-02	2.522147E-02	-1.483793E-02	1.921911E-03
162.00	1.931209E-02	2.577251E-02	-1.589675E-02	1.491954E-03
164.00	2.033604E-02	2.625611E-02	-1.703139E-02	1.042920E-03
166.00	2.171306E-02	2.675179E-02	-1.827655E-02	6.997257E-04
168.00	2.335162E-02	2.753079E-02	-1.971931E-02	4.214593E-04
170.00	2.515600E-02	2.857012E-02	-2.130129E-02	1.517305E-04
172.00	2.707503E-02	2.987413E-02	-2.327477E-02	-1.006174E-04
174.00	2.930403E-02	3.132947E-02	-2.548641E-02	-3.578531E-04
176.00	3.075001E-02	3.236882E-02	-2.821443E-02	-1.447669E-04
178.00	3.207273E-02	3.312860E-02	-3.148921E-02	-6.441499E-04
180.00	3.326936E-02	3.326996E-02	-3.326996E-02	-3.427544E-17

TABLE C8. NORMALIZED PHASE MATRIX FOR TYPE A AEROSOLS, MODEL 500, λ=1.60μ

M=1.55-0.01I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	4.112647E+01	4.112647E+01	4.112647E+01	-3.768469E-14
.10	4.102257E+01	4.102278E+01	4.102267E+01	-1.787111E-03
.20	4.071853E+01	4.071933E+01	4.071893E+01	-7.095816E-03
.30	4.021729E+01	4.021907E+01	4.021818E+01	-1.576897E-02
.40	3.952693E+01	3.953003E+01	3.952847E+01	-2.795284E-02
.50	3.865848E+01	3.866319E+01	3.866081E+01	-4.210337E-02
.60	3.762963E+01	3.763221E+01	3.762887E+01	-5.980183E-02
.70	3.644439E+01	3.645304E+01	3.644862E+01	-7.776666E-02
.80	3.513271E+01	3.514354E+01	3.513797E+01	-9.787350E-02
.90	3.371002E+01	3.372308E+01	3.371630E+01	-1.187714E-01
1.00	3.219878E+01	3.221264E+01	3.220404E+01	-1.399026E-01
1.10	3.061396E+01	3.063177E+01	3.062216E+01	-1.607210E-01
1.20	2.898259E+01	2.900209E+01	2.899172E+01	-1.807099E-01
1.30	2.732369E+01	2.734485E+01	2.733339E+01	-1.993981E-01
1.40	2.565685E+01	2.567954E+01	2.566708E+01	-2.163734E-01
1.50	2.400092E+01	2.402484E+01	2.401150E+01	-2.312939E-01
1.60	2.237311E+01	2.239792E+01	2.238389E+01	-2.438963E-01
1.70	2.078853E+01	2.081418E+01	2.079954E+01	-2.539998E-01
1.80	1.926148E+01	1.928763E+01	1.927196E+01	-2.615784E-01
1.90	1.780232E+01	1.782771E+01	1.781239E+01	-2.664086E-01
2.00	1.642035E+01	1.644525E+01	1.642984E+01	-2.687647E-01
3.00	7.368257E+00	7.377015E+00	7.367357E+00	-2.022919E-01
4.00	4.210966E+00	4.206853E+00	4.203581E+00	-1.343933E-01
5.00	2.730226E+00	2.727045E+00	2.726142E+00	-1.036084E-01
6.00	1.955938E+00	1.943277E+00	1.944153E+00	-7.885917E-02
7.00	1.503953E+00	1.487195E+00	1.488638E+00	-6.649267E-02
8.00	1.191773E+00	1.177483E+00	1.179083E+00	-5.597050E-02
9.00	9.859629E-01	9.715417E-01	9.731721E-01	-4.865595E-02
10.00	8.331433E-01	8.191004E-01	8.206309E-01	-4.245649E-02
11.00	7.240825E-01	7.103338E-01	7.117974E-01	-3.756306E-02
12.00	6.385982E-01	6.246034E-01	6.258265E-01	-3.387878E-02
13.00	5.722521E-01	5.584854E-01	5.595586E-01	-3.055058E-02
14.00	5.182720E-01	5.048182E-01	5.056779E-01	-2.805830E-02
15.00	4.736331E-01	4.607282E-01	4.613804E-01	-2.564982E-02
16.00	4.370239E-01	4.242513E-01	4.247378E-01	-2.376310E-02
17.00	4.050561E-01	3.931113E-01	3.935029E-01	-2.205585E-02
18.00	3.785344E-01	3.662650E-01	3.665846E-01	-2.070894E-02
19.00	3.542938E-01	3.422874E-01	3.425384E-01	-1.944952E-02
20.00	3.332637E-01	3.214164E-01	3.216621E-01	-1.833700E-02
22.00	2.967932E-01	2.853888E-01	2.856022E-01	-1.650340E-02
24.00	2.667526E-01	2.556361E-01	2.558628E-01	-1.501195E-02
26.00	2.410708E-01	2.302608E-01	2.304368E-01	-1.370335E-02
28.00	2.188755E-01	2.083107E-01	2.084192E-01	-1.259638E-02
30.00	1.995870E-01	1.891525E-01	1.892169E-01	-1.161081E-02
32.00	1.824634E-01	1.721537E-01	1.721548E-01	-1.063454E-02
34.00	1.671961E-01	1.569445E-01	1.568659E-01	-9.876513E-03
36.00	1.535430E-01	1.432851E-01	1.431732E-01	-9.162518E-03
38.00	1.412447E-01	1.309257E-01	1.307438E-01	-8.479052E-03
40.00	1.300442E-01	1.196720E-01	1.194245E-01	-7.842958E-03
42.00	1.198554E-01	1.094230E-01	1.091019E-01	-7.275301E-03
44.00	1.106243E-01	1.000922E-01	9.971029E-02	-6.742700E-03
46.00	1.022195E-01	9.157276E-02	9.112813E-02	-6.220620E-03
48.00	9.450991E-02	8.373373E-02	8.324220E-02	-5.726074E-03
50.00	8.745905E-02	7.654185E-02	7.600957E-02	-5.274594E-03
52.00	8.104949E-02	7.012863E-02	6.960051E-02	-4.853310E-03
54.00	7.520122E-02	6.417504E-02	6.334458E-02	-4.444189E-03
56.00	6.983187E-02	5.872680E-02	5.777100E-02	-4.068969E-03
58.00	6.490717E-02	5.374576E-02	5.264509E-02	-3.682432E-03

SCATTERING ANGLE	I1	I2	I3	I4
60.00	6.041033E-02	4.919711E-02	4.794533E-02	-3.345393E-03
62.00	5.630439E-02	4.504402E-02	4.363469E-02	-3.019193E-03
64.00	5.254216E-02	4.125426E-02	3.967173E-02	-2.699175E-03
66.00	4.938413E-02	3.786448E-02	3.602202E-02	-2.397302E-03
68.00	4.591414E-02	3.456866E-02	3.266742E-02	-2.118495E-03
70.00	4.302624E-02	3.179794E-02	2.959318E-02	-1.855227E-03
72.00	4.030951E-02	2.920031E-02	2.677291E-02	-1.599331E-03
74.00	3.792862E-02	2.684464E-02	2.417292E-02	-1.352774E-03
76.00	3.568342E-02	2.471234E-02	2.178370E-02	-1.124319E-03
78.00	3.362935E-02	2.278431E-02	1.959262E-02	-9.136037E-04
80.00	3.174532E-02	2.104355E-02	1.758403E-02	-7.124950E-04
82.00	3.001235E-02	1.947495E-02	1.573037E-02	-5.104[illegible]71E-04
84.00	2.841300E-02	1.807345E-02	1.403422E-02	-3.861057E-04
86.00	2.694501E-02	1.681074E-02	1.246985E-02	-1.678457E-04
88.00	2.559951E-02	1.564491E-02	1.103304E-02	[illegible]
90.00	2.430145E-02	1.460963E-02	9.759364E-03	1.465960E-04
92.00	2.321535E-02	1.352276E-02	8.466807E-03	2.963540E-04
94.00	2.216938E-02	1.305333E-02	7.358690E-03	4.345757E-04
96.00	2.120433E-02	1.238194E-02	6.318103E-03	5.609507E-04
98.00	2.031705E-02	1.168360E-02	5.355447E-03	6.904673E-04
100.00	1.947602E-02	1.131331E-02	4.462085E-03	8.196359E-04
102.00	1.872440E-02	1.090235E-02	3.630319E-03	9.358002E-04
104.00	1.807230E-02	1.056463E-02	2.870190E-03	1.048544E-03
106.00	1.741356E-02	1.029552E-02	2.156869E-03	1.158121E-03
108.00	1.692425E-02	1.009161E-02	1.491961E-03	1.262142E-03
110.00	1.625205E-02	9.940068E-03	8.727401E-04	1.362179E-03
112.00	1.576291E-02	9.858233E-03	2.943383E-04	1.465655E-03
114.00	1.532321E-02	9.824852E-03	-2.476141E-04	1.556219E-03
116.00	1.493220E-02	9.841064E-03	-7.546906E-04	1.650017E-03
118.00	1.451621E-02	9.906751E-03	-1.230256E-03	1.743497E-03
120.00	1.416673E-02	1.002030E-02	-1.670659E-03	1.836670E-03
122.00	1.385313E-02	1.017995E-02	-2.095822E-03	1.929529E-03
124.00	1.357003E-02	1.038440E-02	-2.480073E-03	2.024169E-03
126.00	1.331973E-02	1.063457E-02	-2.859454E-03	2.120540E-03
128.00	1.310306E-02	1.092906E-02	-3.230198E-03	2.215718E-03
130.00	1.291322E-02	1.127122E-02	-3.530987E-03	2.320593E-03
132.00	1.275756E-02	1.166271E-02	-3.947631E-03	2.426408E-03
134.00	1.263471E-02	1.213625E-02	-4.141817E-03	2.530924E-03
136.00	1.254565E-02	1.260574E-02	-4.426987E-03	2.654107E-03
138.00	1.249234E-02	1.310660E-02	-4.687561E-03	2.779294E-03
140.00	1.247796E-02	1.375493E-02	-4.944096E-03	2.915195E-03
142.00	1.250021E-02	1.450047E-02	-5.194695E-03	3.064841E-03
144.00	1.256264E-02	1.529460E-02	-5.444091E-03	3.231299E-03
146.00	1.271317E-02	1.619037E-02	-5.699342E-03	3.417251E-03
148.00	1.290525E-02	1.719876E-02	-5.970136E-03	3.621850E-03
150.00	1.317630E-02	1.832589E-02	-6.270216E-03	3.842493E-03
152.00	1.352510E-02	1.957666E-02	-6.619706E-03	4.072931E-03
154.00	1.399222E-02	2.094194E-02	-7.046187E-03	4.301096E-03
156.00	1.462029E-02	2.239542E-02	-7.585491E-03	4.506998E-03
158.00	1.544433E-02	2.388866E-02	-8.284332E-03	4.652272E-03
160.00	1.659114E-02	2.521707E-02	-9.183706E-03	4.658405E-03
162.00	1.830394E-02	2.624915E-02	-1.026164E-02	4.429037E-03
164.00	2.063567E-02	2.704044E-02	-1.138103E-02	4.053099E-03
166.00	2.257203E-02	2.808111E-02	-1.264212E-02	3.749377E-03
168.00	[illegible]	2.908871E-02	-1.424677E-02	3.343973E-03
170.00	[illegible]	3.169100E-02	-1.631330E-02	2.635030E-03
172.00	3.072015E-02	3.427766E-02	-1.908130E-02	1.505740E-03
174.00	3.337244E-02	3.725046E-02	-2.280257E-02	2.333540E-04
176.00	3.576038E-02	3.979825E-02	-2.830306E-02	-1.052679E-03
178.00	3.752617E-02	4.022491E-02	-3.639028E-02	-1.674990E-03
180.00	4.056063E-02	4.056063E-02	-4.056063E-02	-6.181051E-17

TABLE C9. NORMALIZED PHASE MATRIX FOR TYPE A AEROSOLS, MODEL 600, λ=0.45μ

M=1.55-0.01I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	2.869135E+01	2.869135E+01	2.869135E+01	-2.752844E-16
.10	2.779090E+01	2.779115E+01	2.779103E+01	-4.604040E-03
.20	2.527134E+01	2.527223E+01	2.527178E+01	-1.673235E-02
.30	2.162171E+01	2.162337E+01	2.162251E+01	-3.207839E-02
.40	1.749120E+01	1.743346E+01	1.749226E+01	-4.957115E-02
.50	1.350761E+01	1.351007E+01	1.350870E+01	-5.342522E-02
.60	1.012645E+01	1.012871E+01	1.012739E+01	-5.461957E-02
.70	7.550830E+00	7.553602E+00	7.558507E+00	-4.990574E-02
.80	5.782621E+00	5.785527E+00	5.752794E+00	-4.271498E-02
.90	4.631182E+00	4.631507E+00	4.631029E+00	-3.560820E-02
1.00	3.888444E+00	3.881133E+00	3.868891E+00	-3.085161E-02
1.10	3.363944E+00	3.363530E+00	3.363437E+00	-2.731048E-02
1.20	2.969768E+00	2.963190E+00	2.963182E+00	-2.580135E-02
1.30	2.597182E+00	2.596399E+00	2.596447E+00	-2.406572E-02
1.40	2.290730E+00	2.292983E+00	2.298800E+00	-2.263290E-02
1.50	2.057699E+00	2.056717E+00	2.056807E+00	-2.050307E-02
1.60	1.870898E+00	1.888978E+00	1.869216E+00	-1.882361E-02
1.70	1.722961E+00	1.721744E+00	1.722839E+00	-1.744821E-02
1.80	1.600921E+00	1.599633E+00	1.599967E+00	-1.661080E-02
1.90	1.493252E+00	1.491913E+00	1.492273E+00	-1.577045E-02
2.00	1.396260E+00	1.394875E+00	1.395295E+00	-1.518941E-02
3.00	9.009540E-01	9.991873E-01	9.997509E-01	-9.959610E-03
4.00	7.241363E-01	7.221389E-01	7.228160E-01	-7.964495E-03
5.00	6.368092E-01	6.345380E-01	6.354314E-01	-7.051600E-03
6.00	5.862281E-01	5.816511E-01	5.825805E-01	-6.738365E-03
7.00	5.481530E-01	5.451752E-01	5.462926E-01	-6.664630E-03
8.00	5.208944E-01	5.174361E-01	5.187451E-01	-6.752791E-03
9.00	4.998374E-01	4.950189E-01	4.955648E-01	-6.930970E-03
10.00	4.885644E-01	4.753894E-01	4.777257E-01	-7.186411E-03
11.00	4.643996E-01	4.590382E-01	4.611496E-01	-7.481454E-03
12.00	4.498384E-01	4.436851E-01	4.461306E-01	-7.808801E-03
13.00	4.364417E-01	4.294429E-01	4.322603E-01	-8.139080E-03
14.00	4.239103E-01	4.162252E-01	4.192398E-01	-8.480443E-03
15.00	4.121013E-01	4.032237E-01	4.068591E-01	-8.842619E-03
16.00	4.008078E-01	3.908871E-01	3.949480E-01	-9.196337E-03
17.00	3.899456E-01	3.789749E-01	3.835249E-01	-9.545459E-03
18.00	3.794801E-01	3.673616E-01	3.724077E-01	-9.887916E-03
19.00	3.692677E-01	3.563267E-01	3.615834E-01	-1.022011E-02
20.00	3.593626E-01	3.449361E-01	3.511100E-01	-1.054837E-02
22.00	3.402869E-01	3.234085E-01	3.305747E-01	-1.113516E-02
24.00	3.220940E-01	3.027410E-01	3.109632E-01	-1.165697E-02
26.00	3.047260E-01	2.827862E-01	2.921399E-01	-1.209494E-02
28.00	2.881699E-01	2.631670E-01	2.740761E-01	-1.244230E-02
30.00	2.723816E-01	2.453629E-01	2.567064E-01	-1.269640E-02
32.00	2.573263E-01	2.278874E-01	2.402784E-01	-1.285924E-02
34.00	2.430544E-01	2.112580E-01	2.245267E-01	-1.293594E-02
36.00	2.298231E-01	1.955560E-01	2.095491E-01	-1.293198E-02
38.00	2.167180E-01	1.805832E-01	1.953292E-01	-1.285380E-02
40.00	2.045949E-01	1.663914E-01	1.818599E-01	-1.270698E-02
42.00	1.931590E-01	1.531879E-01	1.691134E-01	-1.249793E-02
44.00	1.823718E-01	1.403360E-01	1.578816E-01	-1.223461E-02
46.00	1.722840E-01	1.283572E-01	1.457399E-01	-1.192404E-02
48.00	1.626286E-01	1.100443E-01	1.350507E-01	-1.157242E-02
50.00	1.536151E-01	1.070782E-01	1.249791E-01	-1.118653E-02
52.00	1.451344E-01	9.848722E-02	1.155582E-01	-1.077283E-02
54.00	1.371503E-01	8.962710E-02	1.066901E-01	-1.033363E-02
56.00	1.296559E-01	8.161930E-02	9.836806E-02	-9.874659E-03
58.00	1.226114E-01	7.399261E-02	9.056298E-02	-9.408819E-03

SCATTERING ANGLE	I1	I2	I3	I4
60.00	1.159840E-01	6.707553E-02	8.325993E-02	-8.913065E-03
62.00	1.097630E-01	6.071669E-02	7.642906E-02	-8.419089E-03
64.00	1.039144E-01	5.484499E-02	7.003154E-02	-7.921496E-03
66.00	9.841640E-02	4.955890E-02	6.405377E-02	-7.421651E-03
68.00	9.324859E-02	4.461594E-02	5.846809E-02	-6.921731E-03
70.00	8.839199E-02	4.025153E-02	5.325177E-02	-6.423506E-03
72.00	8.382795E-02	3.625967E-02	4.839253E-02	-5.929230E-03
74.00	7.953809E-02	3.262366E-02	4.383927E-02	-5.440592E-03
76.00	7.550811E-02	2.933881E-02	3.958164E-02	-4.959631E-03
78.00	7.171920E-02	2.642870E-02	3.565824E-02	-4.487541E-03
80.00	6.815749E-02	2.351313E-02	3.196719E-02	-4.025409E-03
82.00	6.480972E-02	2.149539E-02	2.853531E-02	-3.573799E-03
84.00	6.166294E-02	1.943598E-02	2.533883E-02	-3.133620E-03
86.00	5.870534E-02	1.763382E-02	2.235985E-02	-2.705673E-03
88.00	5.592627E-02	1.536289E-02	1.958607E-02	-2.290710E-03
90.00	5.331536E-02	1.478593E-02	1.700293E-02	-1.899123E-03
92.00	5.086327E-02	1.356817E-02	1.459774E-02	-1.501262E-03
94.00	4.856856E-02	1.257310E-02	1.235023E-02	-1.127082E-03
96.00	4.639485E-02	1.176569E-02	1.027244E-02	-7.690253E-04
98.00	4.436922E-02	1.111222E-02	9.329257E-03	-4.277542E-04
100.00	4.246332E-02	1.063036E-02	6.518191E-03	-1.021502E-04
102.00	4.067589E-02	1.021971E-02	4.929272E-03	2.960084E-04
104.00	3.899831E-02	9.955399E-03	3.253506E-03	4.995260E-04
106.00	3.742520E-02	9.532934E-03	1.732416E-03	7.756596E-04
108.00	3.595129E-02	9.748591E-03	4.077342E-04	1.034941E-03
110.00	3.457183E-02	9.784772E-03	-8.731320E-04	1.277074E-03
112.00	3.327929E-02	9.903386E-03	-2.082221E-03	1.501727E-03
114.00	3.207126E-02	1.009609E-02	-3.211291E-03	1.708567E-03
116.00	3.094240E-02	1.033029E-02	-4.271797E-03	1.897384E-03
118.00	2.988833E-02	1.055092E-02	-5.269725E-03	2.058075E-03
120.00	2.890587E-02	1.185873E-02	-6.218433E-03	2.220585E-03
122.00	2.798911E-02	1.149610E-02	-7.098995E-03	2.354760E-03
124.00	2.713752E-02	1.195305E-02	-7.960439E-03	2.470358E-03
126.00	2.634727E-02	1.246919E-02	-8.739336E-03	2.566943E-03
128.00	2.561536E-02	1.301456E-02	-9.530801E-03	2.644820E-03
130.00	2.493919E-02	1.358986E-02	-1.022698E-02	2.701349E-03
132.00	2.431664E-02	1.413100E-02	-1.092295E-02	2.738766E-03
134.00	2.374538E-02	1.481484E-02	-1.159466E-02	2.756123E-03
136.00	2.322614E-02	1.545420E-02	-1.224224E-02	2.752965E-03
138.00	2.275185E-02	1.613784E-02	-1.286993E-02	2.720740E-03
140.00	2.232759E-02	1.678533E-02	-1.345873E-02	2.683814E-03
142.00	2.195123E-02	1.743413E-02	-1.407709E-02	2.615600E-03
144.00	2.162265E-02	1.810822E-02	-1.466425E-02	2.526274E-03
146.00	2.134217E-02	1.875223E-02	-1.524261E-02	2.414625E-03
148.00	2.111050E-02	1.941521E-02	-1.581600E-02	2.298141E-03
150.00	2.092944E-02	2.005345E-02	-1.638730E-02	2.122640E-03
152.00	2.080152E-02	2.067353E-02	-1.695961E-02	1.941892E-03
154.00	2.073623E-02	2.125880E-02	-1.753570E-02	1.737514E-03
156.00	2.071827E-02	2.183823E-02	-1.811867E-02	1.508753E-03
158.00	2.077596E-02	2.231074E-02	-1.871353E-02	1.255409E-03
160.00	2.090745E-02	2.273229E-02	-1.932615E-02	9.793874E-04
162.00	2.112023E-02	2.312039E-02	-1.995210E-02	6.877780E-04
164.00	2.145915E-02	2.345675E-02	-2.059534E-02	4.045674E-04
166.00	2.191573E-02	2.374613E-02	-2.126541E-02	1.656779E-04
168.00	2.249880E-02	2.415225E-02	-2.198113E-02	-1.618624E-05
170.00	2.316345E-02	2.455705E-02	-2.274792E-02	-1.413936E-04
172.00	2.390412E-02	2.502256E-02	-2.355806E-02	-2.111275E-04
174.00	2.466976E-02	2.548789E-02	-2.438809E-02	-2.295654E-04
176.00	2.538764E-02	2.590843E-02	-2.520200E-02	-1.992988E-04
178.00	2.595119E-02	2.615867E-02	-2.592937E-02	-1.166716E-04
180.00	2.625442E-02	2.625442E-02	-2.625442E-02	-1.040027E-17

TABLE C10. NORMALIZED PHASE MATRIX FOR TYPE A AEROSOLS, MODEL 600, λ=0.55μ

M=1.55-0.01I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	2.982223E+01	2.982223E+01	2.982223E+01	-2.727786E-16
.10	2.918901E+01	2.918925E+01	2.918913E+01	-3.963557E-03
.20	2.737625E+01	2.737716E+01	2.737670E+01	-1.679879E-02
.30	2.462824E+01	2.462804E+61	2.462712E+01	-2.998987E-02
.40	2.128842E+01	2.128911E+01	2.128771E+01	-4.578856E-02
.50	1.774952E+01	1.774385E+01	1.774287E+01	-5.884381E-02
.60	1.433889E+01	1.434215E+01	1.433817E+01	-6.693166E-02
.70	1.134239E+01	1.134577E+01	1.134379E+01	-6.913764E-02
.80	8.897315E+00	8.901129E+00	8.898346E+00	-6.615761E-02
.90	7.033277E+00	7.035316E+00	7.033858E+00	-5.975567E-02
1.00	5.589706E+00	5.591915E+00	5.589839E+00	-5.286225E-02
1.10	4.753676E+00	4.754161E+00	4.753436E+00	-4.489595E-02
1.20	4.099888E+00	4.093813E+00	4.098576E+00	-3.932764E-02
1.30	3.616403E+00	3.616340E+00	3.616113E+00	-3.950367E-02
1.40	3.230565E+00	3.229969E+00	3.229762E+00	-3.325229E-02
1.50	2.898764E+00	2.897982E+00	2.897877E+00	-3.164558E-02
1.60	2.605196E+00	2.605198E+00	2.605228E+00	-3.015324E-02
1.70	2.351789E+00	2.353638E+00	2.350733E+00	-2.845666E-02
1.80	2.137824E+00	2.136297E+00	2.136475E+00	-2.655691E-02
1.90	1.962441E+00	1.963949E+00	1.961287E+00	-2.465865E-02
2.00	1.823158E+00	1.815519E+00	1.818846E+00	-2.299788E-02
3.00	1.074188E+00	1.071916E+00	1.072570E+00	-1.319464E-02
4.00	8.005500E-01	7.979681E-01	7.987705E-01	-1.186919E-02
5.00	6.701839E-01	6.672312E-01	6.681708E-01	-9.769764E-03
6.00	5.952856E-01	5.921874E-01	5.931881E-01	-8.777872E-03
7.00	5.461025E-01	5.423683E-01	5.437891E-01	-8.383824E-03
8.00	5.104322E-01	5.056654E-01	5.079623E-01	-8.076587E-03
9.00	4.929221E-01	4.794395E-01	4.808479E-01	-7.993873E-03
10.00	4.606240E-01	4.555450E-01	4.574885E-01	-8.016258E-03
11.00	4.417679E-01	4.363169E-01	4.381513E-01	-8.107948E-03
12.00	4.253984E-01	4.191495E-01	4.212969E-01	-8.239212E-03
13.00	4.107217E-01	4.034043E-01	4.061975E-01	-8.395882E-03
14.00	3.974284E-01	3.892269E-01	3.923976E-01	-8.571522E-03
15.00	3.851586E-01	3.769101E-01	3.795891E-01	-8.755152E-03
16.00	3.737106E-01	3.633583E-01	3.678746E-01	-8.940950E-03
17.00	3.629297E-01	3.517161E-01	3.562033E-01	-9.128779E-03
18.00	3.528947E-01	3.403732E-01	3.453554E-01	-9.317268E-03
19.00	3.429178E-01	3.294457E-01	3.349454E-01	-9.502537E-03
20.00	3.335169E-01	3.198775E-01	3.249127E-01	-9.682208E-03
22.00	3.157720E-01	2.986513E-01	3.057944E-01	-1.002898E-02
24.00	2.991249E-01	2.794686E-01	2.877349E-01	-1.032156E-02
26.00	2.834309E-01	2.611738E-01	2.705785E-01	-1.057575E-02
28.00	2.685896E-01	2.437190E-01	2.542346E-01	-1.077279E-02
30.00	2.545330E-01	2.273560E-01	2.386405E-01	-1.090540E-02
32.00	2.412131E-01	2.111639E-01	2.237457E-01	-1.098152E-02
34.00	2.285942E-01	1.963315E-01	2.096224E-01	-1.099270E-02
36.00	2.166695E-01	1.815521E-01	1.961423E-01	-1.094261E-02
38.00	2.053538E-01	1.683180E-01	1.833293E-01	-1.083439E-02
40.00	1.946819E-01	1.551191E-01	1.711684E-01	-1.067322E-02
42.00	1.846077E-01	1.423430E-01	1.596343E-01	-1.046417E-02
44.00	1.751052E-01	1.316755E-01	1.487129E-01	-1.021237E-02
46.00	1.661465E-01	1.207006E-01	1.383815E-01	-9.923381E-03
48.00	1.577033E-01	1.105994E-01	1.286170E-01	-9.602664E-03
50.00	1.497401E-01	1.011497E-01	1.193946E-01	-9.254435E-03
52.00	1.422565E-01	9.232817E-02	1.106985E-01	-8.882990E-03
54.00	1.352630E-01	8.411082E-02	1.024807E-01	-8.492772E-03
56.00	1.285626E-01	7.667369E-02	9.474161E-02	-8.087963E-03
58.00	1.223188E-01	6.933297E-02	9.745816E-02	-7.672026E-03
60.00	1.164256E-01	6.284448E-02	8.058383E-02	-7.248116E-03
62.00	1.109839E-01	5.683306E-02	7.412004E-02	-6.819057E-03
64.00	1.058650E-01	5.124441E-02	6.803736E-02	-6.387433E-03
66.00	1.007493E-01	4.614423E-02	6.231475E-02	-5.955726E-03
68.00	9.611860E-02	4.147910E-02	5.693247E-02	-5.525507E-03
70.00	9.175605E-02	3.722600E-02	5.197201E-02	-5.098591E-03
72.00	8.764696E-02	3.335221E-02	4.711511E-02	-4.676833E-03
74.00	8.377327E-02	2.985531E-02	4.254459E-02	-4.262102E-03
76.00	8.012877E-02	2.671608E-02	3.844367E-02	-3.855942E-03
78.00	7.667560E-02	2.393313E-02	3.449661E-02	-3.459015E-03
80.00	7.342598E-02	2.137770E-02	3.078871E-02	-3.071828E-03
82.00	7.036032E-02	1.913352E-02	2.730575E-02	-2.694995E-03
84.00	6.746810E-02	1.719326E-02	2.403429E-02	-2.329231E-03
86.00	6.473929E-02	1.545961E-02	2.096151E-02	-1.975302E-03
88.00	[illegible]	1.402319E-02	1.807541E-02	-1.633694E-03
90.00	5.973350E-02	1.277258E-02	1.536473E-02	-1.304909E-03
92.00	5.743886E-02	1.173046E-02	1.291850E-02	-9.889495E-04
94.00	5.527236E-02	1.087982E-02	1.042664E-02	-6.860795E-04
96.00	5.322727E-02	1.021690E-02	8.179475E-03	-3.962212E-04
98.00	5.129714E-02	9.698730E-03	6.057836E-03	-1.196795E-04
100.00	4.947622E-02	9.362731E-03	4.033279E-03	1.436748E-04
102.00	4.775866E-02	9.126986E-03	2.217620E-03	3.931266E-04
104.00	4.613856E-02	9.043584E-03	4.631451E-04	6.294282E-04
106.00	4.461043E-02	9.073391E-03	-1.197427E-03	8.493745E-04
108.00	4.316037E-02	9.214836E-03	-2.741150E-03	1.056331E-03
110.00	4.181099E-02	9.456300E-03	-4.234551E-03	1.242675E-03
112.00	4.053148E-02	9.788286E-03	-5.553694E-03	1.427257E-03
114.00	3.932706E-02	1.020242E-02	-6.894447E-03	1.591459E-03
116.00	3.819395E-02	[illegible]	[illegible]	1.741176E-03
118.00	3.712802E-02	1.124697E-02	-9.272830E-03	1.876451E-03
120.00	3.612868E-02	1.183310E-02	-1.037085E-02	1.997211E-03
122.00	3.519081E-02	1.253273E-02	-1.141357E-02	2.103577E-03
124.00	3.431278E-02	1.324917E-02	-1.239691E-02	2.195539E-03
126.00	3.349222E-02	1.400522E-02	-1.333374E-02	2.272762E-03
128.00	3.272673E-02	1.479831E-02	-1.422509E-02	2.334879E-03
130.00	3.201428E-02	1.562315E-02	-1.507465E-02	2.381695E-03
132.00	3.135320E-02	1.643660E-02	-1.588599E-02	2.413010E-03
134.00	3.074212E-02	1.733296E-02	-1.666253E-02	2.429507E-03
136.00	3.018020E-02	1.821469E-02	-1.740740E-02	2.429354E-03
138.00	2.966703E-02	1.910725E-02	-1.812357E-02	2.414719E-03
140.00	2.920246E-02	2.003640E-02	-1.881375E-02	2.384548E-03
142.00	2.878635E-02	2.093922E-02	-1.948070E-02	2.339535E-03
144.00	2.842865E-02	2.180868E-02	-2.012714E-02	2.276554E-03
146.00	2.809984E-02	2.273346E-02	-2.075592E-02	2.198380E-03
148.00	2.783070E-02	2.358800E-02	-2.137017E-02	2.103336E-03
150.00	2.761201E-02	2.445571E-02	-2.197344E-02	1.999970E-03
152.00	2.744586E-02	2.530225E-02	-2.256994E-02	1.855852E-03
154.00	2.733206E-02	2.611473E-02	-2.316453E-02	1.697334E-03
156.00	2.727655E-02	2.688138E-02	-2.376287E-02	1.518110E-03
158.00	2.728395E-02	2.759701E-02	-2.437161E-02	1.289958E-03
160.00	2.736413E-02	2.821455E-02	-2.499772E-02	1.034420E-03
162.00	2.753523E-02	2.875196E-02	-2.564539E-02	7.475519E-04
164.00	2.782659E-02	2.921926E-02	-2.631345E-02	4.565360E-04
166.00	2.826291E-02	2.958061E-02	-2.702003E-02	2.067573E-04
168.00	2.883963E-02	3.018303E-02	-2.779289E-02	1.273587E-05
170.00	2.953232E-02	3.074187E-02	-2.864243E-02	[illegible]
172.00	3.031205E-02	3.136776E-02	-2.956227E-02	-2.164321E-04
174.00	3.113705E-02	3.195320E-02	-3.033159E-02	-2.534902E-04
176.00	3.192458E-02	3.243958E-02	-3.152677E-02	-2.452677E-04
178.00	3.254731E-02	3.281315E-02	-3.248226E-02	-1.631309E-04
180.00	3.292846E-02	3.292846E-02	-3.292945E-02	-1.229315E-17

TABLE C11. NORMALIZED PHASE MATRIX FOR TYPE A AEROSOLS, MODEL 600, λ=0.70μ

n=1.55-0.01I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	3.176743E+01	3.175743E+01	3.176743E+01	-2.979358E-14
.10	3.134670E+01	3.134694E+01	3.134692E+01	-3.309315E-03
.20	3.012066E+01	3.012157E+01	3.012111E+01	-1.271937E-02
.30	2.819292E+01	2.819483E+01	2.819385E+01	-2.677513E-02
.40	2.572098E+01	2.572402E+01	2.572245E+01	-4.335009E-02
.50	2.289605E+01	2.293017E+01	2.299807E+01	-6.388088E-02
.60	1.991973E+01	1.992472E+01	1.992273E+01	-7.470263E-02
.70	1.698107E+01	1.696565E+01	1.698355E+01	-8.550691E-02
.80	1.423746E+01	1.424303E+01	1.423986E+01	-9.154030E-02
.90	1.180180E+01	1.180712E+01	1.180409E+01	-9.269122E-02
1.00	9.737712E+00	9.742275E+00	9.739375E+00	-8.959953E-02
1.10	8.060930E+00	8.064584E+00	8.052049E+00	-8.343559E-02
1.20	6.748344E+00	6.753986E+00	6.748893E+00	-7.560573E-02
1.30	5.749611E+00	5.751264E+00	5.749632E+00	-6.745766E-02
1.40	5.000515E+00	5.001292E+00	5.000093E+00	-6.004695E-02
1.50	4.435125E+00	4.435195E+00	4.434355E+00	-5.399976E-02
1.60	3.995099E+00	3.994541E+00	3.994801E+00	-4.950313E-02
1.70	3.635213E+00	3.634382E+00	3.634024E+00	-4.637563E-02
1.80	3.325032E+00	3.323993E+00	3.323771E+00	-4.421378E-02
1.90	3.047765E+00	3.043482E+00	3.046354E+00	-4.255036E-02
2.00	2.796379E+00	2.794923E+00	2.794579E+00	-4.090947E-02
3.00	1.402798E+00	1.473862E+00	1.480505E+00	-2.628674E-02
4.00	1.014293E+00	1.013911E+00	1.011734E+00	-1.955934E-02
5.00	7.926192E-01	7.897580E-01	7.898570E-01	-1.573007E-02
6.00	6.695373E-01	6.653591E-01	6.655964E-01	-1.351794E-02
7.00	5.916437E-01	5.971631E-01	5.995127E-01	-1.216363E-02
8.00	5.378937E-01	5.333581E-01	5.354215E-01	-1.131045E-02
9.00	4.983132E-01	4.927622E-01	4.940135E-01	-1.077626E-02
10.00	4.668067E-01	4.511302E-01	4.629221E-01	-1.042520E-02
11.00	4.414535E-01	4.351590E-01	4.371944E-01	-1.019604E-02
12.00	4.201279E-01	4.132323E-01	4.154803E-01	-1.004331E-02
13.00	4.017318E-01	3.941374E-01	3.956670E-01	-9.944523E-03
14.00	3.855414E-01	3.771506E-01	3.810217E-01	-9.890599E-03
15.00	3.712407E-01	3.619195E-01	3.650360E-01	-9.942090E-03
16.00	3.570633E-01	3.477524E-01	3.513476E-01	-9.828238E-03
17.00	3.457345E-01	3.345966E-01	3.397044E-01	-9.811117E-03
18.00	3.543140E-01	3.224602E-01	3.259122E-01	-9.809614E-03
19.00	3.240979E-01	3.103344E-01	3.150274E-01	-9.913220E-03
20.00	3.141177E-01	2.993271E-01	3.053430E-01	-9.820903E-03
22.00	2.958674E-01	2.794013E-01	2.958539E-01	-9.940703E-03
24.00	2.792579E-01	2.604160E-01	2.679409E-01	-9.957326E-03
26.00	2.539719E-01	2.425944E-01	2.512497E-01	-9.057296E-03
28.00	2.497947E-01	2.253178E-01	2.356976E-01	-9.834306E-03
30.00	2.365836E-01	2.102975E-01	2.210299E-01	-9.703954E-03
32.00	2.242273E-01	1.954377E-01	2.071964E-01	-9.703232E-03
34.00	2.126402E-01	1.913923E-01	1.941203E-01	-9.591355E-03
36.00	2.017007E-01	1.603590E-01	1.917177E-01	-9.467842E-03
38.00	1.915702E-01	1.553230E-01	1.699935E-01	-9.274060E-03
40.00	1.919734E-01	1.435550E-01	1.559916E-01	-9.070757E-03
42.00	1.729500E-01	1.324609E-01	1.493782E-01	-8.530506E-03
44.00	1.544651E-01	1.219150E-01	1.394239E-01	-8.579933E-03
46.00	1.564874E-01	1.119979E-01	1.230033E-01	-8.298586E-03
48.00	1.493359E-01	1.025596E-01	1.290903E-01	-7.997620E-03
50.00	1.419294E-01	9.395994E-02	1.116604E-01	-7.690173E-03
52.00	1.352928E-01	8.591460E-02	1.036875E-01	-7.349785E-03
54.00	1.292564E-01	7.925535E-02	9.614953E-02	-7.035317E-03
56.00	1.231798E-01	7.111959E-02	3.932422E-02	-6.652019E-03
58.00	1.176574E-01	6.453578E-02	8.229965E-02	-6.290741E-03

SCATTERING ANGLE	I1	I2	I3	I4
60.00	1.124622E-01	5.863282E-02	7.592682E-02	-5.924176E-03
62.00	1.075745E-01	5.273871E-02	6.991599E-02	-5.555425E-03
64.00	1.029749E-01	4.755966E-02	5.423946E-02	-5.186954E-03
66.00	9.964429E-02	4.280985E-02	5.897532E-02	-4.819076E-03
68.00	9.456467E-02	3.843073E-02	5.388870E-02	-4.455372E-03
70.00	9.072814E-02	3.443260E-02	4.912215E-02	-4.095182E-03
72.00	8.789624E-02	3.079582E-02	4.458869E-02	-3.740798E-03
74.00	8.367997E-02	2.750575E-02	4.022790E-02	-3.393089E-03
76.00	8.045542E-02	2.454108E-02	3.619173E-02	-3.052724E-03
78.00	7.741364E-02	2.188826E-02	3.237799E-02	-2.720830E-03
80.00	7.454224E-02	1.952823E-02	2.877303E-02	-2.397724E-03
82.00	7.193027E-02	1.744514E-02	2.536761E-02	-2.083350E-03
84.00	6.926816E-02	1.562283E-02	2.214808E-02	-1.778341E-03
86.00	6.684733E-02	1.404540E-02	1.910469E-02	-1.483712E-03
88.00	6.455977E-02	1.273289E-02	1.622752E-02	-1.199966E-03
90.00	6.239747E-02	1.157308E-02	1.350695E-02	-9.269491E-04
92.00	6.035325E-02	1.065939E-02	1.093356E-02	-6.644786E-04
94.00	5.842041E-02	9.930754E-03	8.495110E-03	-4.130514E-04
96.00	5.659275E-02	9.332634E-03	6.195511E-03	-1.726997E-04
98.00	5.486412E-02	9.081870E-03	4.015308E-03	5.552052E-05
100.00	5.322986E-02	8.777102E-03	1.951955E-03	2.742789E-04
102.00	5.168256E-02	8.647770E-03	-1.953422E-06	4.884133E-04
104.00	5.022008E-02	8.753245E-03	-1.852798E-03	6.752674E-04
106.00	4.883755E-02	8.932980E-03	-3.686695E-03	8.589516E-04
108.00	4.753603E-02	9.227149E-03	-5.258089E-03	1.031481E-03
110.00	4.629611E-02	9.625755E-03	-6.944545E-03	1.192290E-03
112.00	4.512992E-02	1.012307E-02	-8.338095E-03	1.361608E-03
114.00	4.402887E-02	1.073747E-02	-9.756925E-03	1.479379E-03
116.00	4.299024E-02	1.137162E-02	-1.110335E-02	1.605610E-03
118.00	4.201119E-02	1.217723E-02	-1.238249E-02	1.728470E-03
120.00	4.108967E-02	1.293680E-02	-1.359848E-02	1.823924E-03
122.00	4.022294E-02	1.375306E-02	-1.475403E-02	1.916819E-03
124.00	3.940960E-02	1.457213E-02	-1.595529E-02	1.996968E-03
126.00	3.864764E-02	1.562535E-02	-1.690384E-02	2.056973E-03
128.00	3.793540E-02	1.661736E-02	-1.790184E-02	2.126224E-03
130.00	3.727181E-02	1.754246E-02	-1.895231E-02	2.174775E-03
132.00	3.665601E-02	1.863530E-02	-1.975988E-02	2.212686E-03
134.00	3.508710E-02	1.977121E-02	-2.052658E-02	2.239781E-03
136.00	3.556443E-02	2.085548E-02	-2.145485E-02	2.256341E-03
138.00	3.508742E-02	2.197378E-02	-2.224749E-02	2.262389E-03
140.00	3.465569E-02	2.303227E-02	-2.330682E-02	2.257760E-03
142.00	3.426928E-02	2.421777E-02	-2.373557E-02	2.242680E-03
144.00	3.392821E-02	2.536690E-02	-2.443891E-02	2.216289E-03
146.00	3.363232E-02	2.647526E-02	-2.511433E-02	2.177739E-03
148.00	3.330172E-02	2.759779E-02	-2.577227E-02	2.124812E-03
150.00	3.317691E-02	2.873732E-02	-2.641573E-02	2.053931E-03
152.00	3.301888E-02	2.979455E-02	-2.705101E-02	1.959985E-03
154.00	3.291026E-02	3.086726E-02	-2.768579E-02	1.836193E-03
156.00	3.285651E-02	3.184878E-02	-2.833084E-02	1.675254E-03
158.00	3.286722E-02	3.277652E-02	-2.899587E-02	1.460985E-03
160.00	3.295876E-02	3.363254E-02	-2.959591E-02	1.218141E-03
162.00	3.315995E-02	3.403329E-02	-3.043595E-02	8.983511E-04
164.00	3.351705E-02	3.490539E-02	-3.120705E-02	5.727286E-04
166.00	3.406397E-02	3.551132E-02	-3.233473E-02	2.967602E-04
168.00	3.478495E-02	3.519330E-02	-3.296061E-02	7.972292E-05
170.00	3.564495E-02	3.594150E-02	-3.399980E-02	-9.058144E-05
172.00	3.661233E-02	3.777746E-02	-3.514765E-02	-2.141913E-04
174.00	3.763095E-02	3.863517E-02	-3.640462E-02	-2.949567E-04
176.00	3.858311E-02	3.937268E-02	-3.778593E-02	-3.403134E-04
178.00	3.935737E-02	3.977376E-02	-3.922083E-02	-2.601142E-04
180.00	3.992020E-02	3.992020E-02	-3.992020E-02	-1.576549E-17

TABLE C12. NORMALIZED P SF RIX FOR TYPE A AEROSOLS, MODEL 600, λ=1.60μ

M=1.55-0.01I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	2.760678E+01	2.760678E+01	2.760678E+01	-2.540774E-14
.10	2.753500E+01	2.753514E+01	2.753507E+01	-1.226978E-03
.20	2.732090E+01	2.732144E+01	2.732117E+01	-4.869727E-03
.30	2.696810E+01	2.695930E+01	2.696873E+01	-1.091515E-02
.40	2.648257E+01	2.648465E+01	2.648360E+01	-1.887951E-02
.50	2.597240E+01	2.597558E+01	2.597397E+01	-2.881543E-02
.60	2.514766E+01	2.515209E+01	2.514983E+01	-4.032113E-02
.70	2.432039E+01	2.432589E+01	2.432292E+01	-5.305172E-02
.80	2.340243E+01	2.341308E+01	2.340634E+01	-6.663190E-02
.90	2.241007E+01	2.241879E+01	2.241426E+01	-8.066959E-02
1.00	2.135672E+01	2.135648E+01	2.136155E+01	-9.476990E-02
1.10	2.025803E+01	2.024956E+01	2.025344E+01	-1.085489E-01
1.20	1.912925E+01	1.914204E+01	1.913519E+01	-1.216465E-01
1.30	1.798532E+01	1.799921E+01	1.799165E+01	-1.337392E-01
1.40	1.684048E+01	1.685529E+01	1.684711E+01	-1.445449E-01
1.50	1.570806E+01	1.572357E+01	1.571487E+01	-1.538406E-01
1.60	1.460021E+01	1.461618E+01	1.460705E+01	-1.614590E-01
1.70	1.352766E+01	1.354386E+01	1.353441E+01	-1.672915E-01
1.80	1.249965E+01	1.251583E+01	1.250617E+01	-1.712972E-01
1.90	1.152376E+01	1.153968E+01	1.152994E+01	-1.734912E-01
2.00	1.050590E+01	1.052134E+01	1.051162E+01	-1.739453E-01
3.00	4.349155E+00	4.352199E+00	4.346945E+00	-1.226099E-01
4.00	2.992455E+00	2.989489E+00	2.997764E+00	-9.414236E-02
5.00	2.046346E+00	2.041218E+00	2.040319E+00	-6.972496E-02
6.00	1.523911E+00	1.513658E+00	1.516735E+00	-5.495978E-02
7.00	1.209317E+00	1.201324E+00	1.201673E+00	-4.792309E-02
8.00	9.911958E-01	9.426306E-01	9.431224E-01	-4.099578E-02
9.00	8.454278E-01	8.353929E-01	8.371463E-01	-3.651015E-02
10.00	7.334759E-01	7.249188E-01	7.253431E-01	-3.257861E-02
11.00	6.324664E-01	6.432400E-01	6.437731E-01	-2.959365E-02
12.00	5.960053E-01	5.773849E-01	5.778130E-01	-2.723857E-02
13.00	5.351883E-01	5.259489E-01	5.242662E-01	-2.507978E-02
14.00	4.923428E-01	4.923613E-01	4.833100E-01	-2.356996E-02
15.00	4.561543E-01	4.457611E-01	4.470425E-01	-2.205266E-02
16.00	4.253399E-01	4.153597E-01	4.162086E-01	-2.087935E-02
17.00	3.986329E-01	3.930567E-01	3.933426E-01	-1.975057E-02
18.00	3.751243E-01	3.654247E-01	3.657759E-01	-1.886227E-02
19.00	3.537973E-01	3.429587E-01	3.443851E-01	-1.806094E-02
20.00	3.350139E-01	3.249346E-01	3.255180E-01	-1.722633E-02
22.00	3.019856E-01	2.913917E-01	2.922405E-01	-1.590738E-02
24.00	2.740725E-01	2.573385E-01	2.642015E-01	-1.475506E-02
26.00	2.499567E-01	2.393604E-01	2.391439E-01	-1.376457E-02
28.00	2.299355E-01	2.155311E-01	2.133623E-01	-1.297139E-02
30.00	2.103020E-01	1.973900E-01	1.994087E-01	-1.203453E-02
32.00	1.937576E-01	1.903969E-01	1.824021E-01	-1.121821E-02
34.00	1.789866E-01	1.644775E-01	1.670353E-01	-1.046639E-02
36.00	1.655794E-01	1.503474E-01	1.531732E-01	-9.766358E-03
38.00	1.535834E-01	1.374895E-01	1.405935E-01	-9.076515E-03
40.00	1.426718E-01	1.257321E-01	1.290654E-01	-8.411859E-03
42.00	1.327750E-01	1.149474E-01	1.185423E-01	-7.798575E-03
44.00	1.232380E-01	1.051692E-01	1.089410E-01	-7.216758E-03
46.00	1.156952E-01	9.617225E-02	1.001387E-01	-6.644820E-03
48.00	1.092563E-01	8.791595E-02	9.202925E-02	-6.099711E-03
50.00	1.014646E-01	8.032841E-02	8.456230E-02	-5.597116E-03
52.00	9.523632E-02	7.327595E-02	7.770014E-02	-5.126493E-03
54.00	8.965768E-02	6.694510E-02	7.137416E-02	-4.672047E-03
56.00	8.448758E-02	5.113426E-02	6.551595E-02	-4.236161E-03
58.00	7.974215E-02	5.575543E-02	6.008921E-02	-3.932955E-03

SCATTERING ANGLE	I1	I2	I3	I4
60.00	7.539972E-02	5.082413E-02	5.516541E-02	-3.481181E-03
62.00	7.142688E-02	4.630572E-02	5.041384E-02	-3.106401E-03
64.00	6.777170E-02	4.216866E-02	4.619070E-02	-2.784816E-03
66.00	6.439798E-02	3.839663E-02	4.206197E-02	-2.444515E-03
68.00	6.129046E-02	3.493355E-02	3.831119E-02	-2.149326E-03
70.00	5.843614E-02	3.173149E-02	3.482211E-02	-1.874196E-03
72.00	5.580620E-02	2.893308E-02	3.156943E-02	-1.609361E-03
74.00	5.335925E-02	2.634228E-02	2.8527[illegible]E-02	-1.357219E-03
76.00	5.109580E-02	2.403243E-02	2.558249E-02	-1.124507E-03
78.00	4.900265E-02	2.199573E-02	2.302395E-02	-9.105719E-04
80.00	4.706596E-02	2.001649E-02	2.053757E-02	-7.076223E-04
82.00	4.526597E-02	1.832258E-02	1.820541E-02	-5.130469E-04
84.00	4.358928E-02	1.683218E-02	1.601403E-02	-3.310825E-04
86.00	4.203120E-02	1.552166E-02	1.395564E-02	-1.630594E-04
88.00	4.058515E-02	1.437398E-02	1.202513E-02	-3.503495E-06
90.00	3.923880E-02	1.339598E-02	1.020712E-02	1.512365E-04
92.00	3.798252E-02	1.255434E-02	8.492864E-03	2.983337E-04
94.00	3.681259E-02	1.187295E-02	6.977259E-03	4.360270E-04
96.00	3.572469E-02	1.131184E-02	5.354744E-03	5.684898E-04
98.00	3.471090E-02	1.087504E-02	3.917109E-03	6.991815E-04
100.00	3.376485E-02	1.055619E-02	2.557945E-03	8.221052E-04
102.00	3.288390E-02	1.034588E-02	1.273849E-03	9.395395E-04
104.00	3.205444E-02	1.023631E-02	5.939799E-05	1.053519E-03
106.00	3.129889E-02	1.022246E-02	-1.090143E-03	1.164590E-03
108.00	3.058461E-02	1.023891E-02	-2.190604E-03	1.274268E-03
110.00	2.991920E-02	1.045680E-02	-3.213765E-03	1.371959E-03
112.00	2.929873E-02	1.059261E-02	-4.194241E-03	1.471419E-03
114.00	2.871979E-02	1.103261E-02	-5.126043E-03	1.567974E-03
116.00	2.818132E-02	1.139059E-02	-6.011080E-03	1.661630E-03
118.00	2.768139E-02	1.182279E-02	-6.852233E-03	1.754534E-03
120.00	2.721754E-02	1.232702E-02	-7.652690E-03	1.846512E-03
122.00	2.678988E-02	1.285951E-02	-8.413885E-03	1.937697E-03
124.00	2.639424E-02	1.351384E-02	-9.138078E-03	2.029413E-03
126.00	2.603195E-02	1.417121E-02	-9.828150E-03	2.121545E-03
128.00	2.570165E-02	1.489742E-02	-1.048571E-02	2.213770E-03
130.00	2.540289E-02	1.565105E-02	-1.111292E-02	2.307298E-03
132.00	2.513507E-02	1.645272E-02	-1.171239E-02	2.401905E-03
134.00	2.489843E-02	1.731977E-02	-1.228804E-02	2.497653E-03
136.00	2.469351E-02	1.822431E-02	-1.283667E-02	2.595512E-03
138.00	2.452110E-02	1.917738E-02	-1.336721E-02	2.695609E-03
140.00	2.439313E-02	2.019392E-02	-1.388365E-02	2.798852E-03
142.00	2.428210E-02	2.123982E-02	-1.439125E-02	2.905979E-03
144.00	2.422179E-02	2.235535E-02	-1.487383E-02	3.017362E-03
146.00	2.420696E-02	2.353534E-02	-1.536539E-02	3.133173E-03
148.00	2.424388E-02	2.478245E-02	-1.586509E-02	3.251124E-03
150.00	2.434129E-02	2.609561E-02	-1.638511E-02	3.366995E-03
152.00	2.451062E-02	2.747486E-02	-1.634190E-02	3.472579E-03
154.00	2.476846E-02	2.893455E-02	-1.755659E-02	3.553967E-03
156.00	2.513904E-02	3.035508E-02	-1.825686E-02	3.589526E-03
158.00	2.565741E-02	3.175505E-02	-1.917961E-02	3.544936E-03
160.00	2.637260E-02	3.302627E-02	-2.035323E-02	3.363432E-03
162.00	2.736597E-02	3.401346E-02	-2.117207E-02	2.995190E-03
164.00	2.876785E-02	3.480071E-02	-2.236297E-02	2.524076E-03
166.00	3.065479E-02	3.573971E-02	-2.369709E-02	2.149926E-03
168.00	3.288863E-02	3.713529E-02	-2.534141E-02	1.837252E-03
170.00	3.517968E-02	3.803509E-02	-2.740643E-02	1.315754E-03
172.00	3.745333E-02	4.033265E-02	-3.001455E-02	6.393033E-04
174.00	3.976813E-02	4.314698E-02	-3.338050E-02	-1.745697E-04
176.00	4.199929E-02	4.503824E-02	-3.777265E-02	-9.664929E-04
178.00	4.396746E-02	4.575361E-02	-4.329893E-02	-1.104452E-03
180.00	4.610759E-02	4.610758E-02	-4.610759E-02	-5.213477E-17

APPENDIX D.

Normalized Phase Matrices for Type C Aerosols

TABLE D1. NORMALIZED PHASE MATRIX FOR TYPE C AEROSOLS, MODEL 100, λ=0.45μ

M=1.55-0.01I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.222415E+02	1.222415E+02	1.222415E+02	-1.187303E-13
.10	1.182337E+02	1.182348E+02	1.182343E+02	-2.031485E-02
.20	1.070229E+02	1.070268E+02	1.070248E+02	-7.374104E-02
.30	9.072450E+01	9.080171E+01	9.079798E+01	-1.410532E-01
.40	7.244932E+01	7.245954E+01	7.245435E+01	-1.996236E-01
.50	5.473455E+01	5.480499E+01	5.479916E+01	-2.325898E-01
.60	3.986443E+01	3.987359E+01	3.986808E+01	-2.345763E-01
.70	2.859153E+01	2.860393E+01	2.859954E+01	-2.117300E-01
.80	2.096330E+01	2.090638E+01	2.090350E+01	-1.768566E-01
.90	1.602087E+01	1.602094E+01	1.601954E+01	-1.427361E-01
1.00	1.297176E+01	1.296966E+01	1.296940E+01	-1.170869E-01
1.10	1.092188E+01	1.091844E+01	1.091851E+01	-1.011727E-01
1.20	9.352159E+00	9.347982E+00	9.348865E+00	-9.179193E-02
1.30	8.043437E+00	8.038768E+00	8.039901E+00	-8.471517E-02
1.40	6.955272E+00	6.950145E+00	6.951447E+00	-7.736885E-02
1.50	6.095422E+00	6.089441E+00	6.091471E+00	-6.967581E-02
1.60	5.444075E+00	5.438115E+00	5.439968E+00	-6.253236E-02
1.70	4.944822E+00	4.937431E+00	4.939376E+00	-5.736008E-02
1.80	4.528445E+00	4.522171E+00	4.524187E+00	-5.469717E-02
1.90	4.155482E+00	4.149214E+00	4.151240E+00	-5.185063E-02
2.00	3.813746E+00	3.807475E+00	3.809490E+00	-4.956541E-02
3.00	2.144376E+00	2.143087E+00	2.145165E+00	-3.420194E-02
4.00	1.592361E+00	1.586709E+00	1.588512E+00	-2.298970E-02
5.00	1.333251E+00	1.328366E+00	1.329810E+00	-1.966640E-02
6.00	1.181647E+00	1.177649E+00	1.173609E+00	-1.871752E-02
7.00	1.079155E+00	1.075493E+00	1.076177E+00	-1.663952E-02
8.00	1.002609E+00	9.996607E-01	9.996532E-01	-1.505603E-02
9.00	9.403132E-01	9.347718E-01	9.382641E-01	-1.965126E-02
10.00	8.875562E-01	8.866244E-01	8.857946E-01	-2.092543E-02
11.00	8.404182E-01	8.404929E-01	8.389242E-01	-2.218017E-02
12.00	7.970880E-01	7.979743E-01	7.958407E-01	-2.348569E-02
13.00	7.564963E-01	7.541843E-01	7.554764E-01	-2.483760E-02
14.00	7.173714E-01	7.203469E-01	7.170551E-01	-2.616373E-02
15.00	6.808441E-01	6.860851E-01	6.802563E-01	-2.741666E-02
16.00	6.452150E-01	6.491957E-01	6.447340E-01	-2.856559E-02
17.00	6.105403E-01	6.155287E-01	6.104942E-01	-2.957649E-02
18.00	5.777162E-01	5.830748E-01	5.774862E-01	-3.043250E-02
19.00	5.464175E-01	5.518236E-01	5.457029E-01	-3.112223E-02
20.00	5.152170E-01	5.217829E-01	5.151520E-01	-3.164656E-02
22.00	4.476235E-01	4.601746E-01	4.577034E-01	-3.214482E-02
24.00	4.053808E-01	4.138773E-01	4.054422E-01	-3.213475E-02
26.00	3.540048E-01	3.622013E-01	3.540089E-01	-3.151322E-02
28.00	3.155000E-01	3.252176E-01	3.153813E-01	-3.038355E-02
30.00	2.777585E-01	2.877909E-01	2.774486E-01	-2.882804E-02
32.00	2.445550E-01	2.546602E-01	2.439681E-01	-2.696629E-02
34.00	2.155324E-01	2.255433E-01	2.146562E-01	-2.490977E-02
36.00	1.902906E-01	2.000071E-01	1.890711E-01	-2.275859E-02
38.00	1.684214E-01	1.774970E-01	1.668431E-01	-2.059591E-02
40.00	1.495224E-01	1.582416E-01	1.475830E-01	-1.849308E-02
42.00	1.331464E-01	1.412764E-01	1.309034E-01	-1.650887E-02
44.00	1.190624E-01	1.264646E-01	1.164403E-01	-1.468118E-02
46.00	1.067798E-01	1.135022E-01	1.038595E-01	-1.303030E-02
48.00	9.605246E-02	1.021232E-01	9.287111E-02	-1.155979E-02
50.00	8.662493E-02	9.209793E-02	8.322562E-02	-1.026418E-02
52.00	7.830237E-02	8.323702E-02	7.471587E-02	-9.129167E-03
54.00	7.090577E-02	7.538207E-02	6.717373E-02	-8.131764E-03
56.00	6.430633E-02	6.841045E-02	6.046233E-02	-7.246999E-03
58.00	5.840487E-02	6.220348E-02	5.447245E-02	-6.450900E-03
60.00	5.311011E-02	5.667254E-02	4.911605E-02	-5.722087E-03
62.00	4.837259E-02	5.174129E-02	4.432694E-02	-5.046382E-03
64.00	4.415296E-02	4.734308E-02	4.004240E-02	-4.412134E-03
66.00	4.034343E-02	4.341166E-02	3.621154E-02	-3.811545E-03
68.00	3.696517E-02	3.990263E-02	3.279214E-02	-3.230864E-03
70.00	3.396274E-02	3.676323E-02	2.974513E-02	-2.695281E-03
72.00	3.129763E-02	3.394175E-02	2.703114E-02	-2.185203E-03
74.00	2.893116E-02	3.141097E-02	2.461367E-02	-1.714427E-03
76.00	2.682513E-02	2.913300E-02	2.245499E-02	-1.286245E-03
78.00	2.494167E-02	2.707211E-02	2.052367E-02	-9.098484E-04
80.00	2.324911E-02	2.521130E-02	1.879117E-02	-5.750131E-04
82.00	2.172180E-02	2.353362E-02	1.722263E-02	-2.827409E-04
84.00	2.033735E-02	2.202411E-02	1.580692E-02	-2.570636E-05
86.00	1.908074E-02	2.067066E-02	1.455702E-02	2.036770E-04
88.00	1.794206E-02	1.946304E-02	1.340966E-02	4.132247E-04
90.00	1.691333E-02	1.839089E-02	1.237445E-02	6.097112E-04
92.00	1.598710E-02	1.744306E-02	1.144361E-02	7.971117E-04
94.00	1.515573E-02	1.661126E-02	1.060651E-02	9.771595E-04
96.00	1.440942E-02	1.588181E-02	9.855562E-03	1.149967E-03
98.00	1.373691E-02	1.524403E-02	9.181262E-03	1.314732E-03
100.00	1.312769E-02	1.469367E-02	8.574296E-03	1.470320E-03
102.00	1.257185E-02	1.421170E-02	8.024690E-03	1.616606E-03
104.00	1.206651E-02	1.380003E-02	7.524661E-03	1.755671E-03
106.00	1.160743E-02	1.344840E-02	7.065030E-03	1.886095E-03
108.00	1.114917E-02	1.315171E-02	6.641992E-03	2.018505E-03
110.00	1.074419E-02	1.290316E-02	6.247596E-03	2.149264E-03
112.00	1.037256E-02	1.271773E-02	5.881656E-03	2.282137E-03
114.00	1.003646E-02	1.258218E-02	5.542506E-03	2.424362E-03
116.00	9.739079E-03	1.250534E-02	5.231498E-03	2.579102E-03
118.00	9.483386E-03	1.249191E-02	4.951098E-03	2.749948E-03
120.00	9.271700E-03	1.254770E-02	4.704789E-03	2.939419E-03
122.00	9.105039E-03	1.267367E-02	4.495535E-03	3.147728E-03
124.00	8.982616E-03	1.289053E-02	4.323948E-03	3.372971E-03
126.00	8.899537E-03	1.318735E-02	4.193199E-03	3.610787E-03
128.00	8.847215E-03	1.357022E-02	4.087405E-03	3.854011E-03
130.00	8.813607E-03	1.403861E-02	4.010781E-03	4.093477E-03
132.00	8.784208E-03	1.458900E-02	3.946323E-03	4.317910E-03
134.00	8.743212E-03	1.521396E-02	3.885155E-03	4.514137E-03
136.00	8.673584E-03	1.590040E-02	3.803906E-03	4.666707E-03
138.00	8.560863E-03	1.663231E-02	3.683171E-03	4.759615E-03
140.00	8.392719E-03	1.739169E-02	3.496844E-03	4.777639E-03
142.00	8.165071E-03	1.815998E-02	3.228759E-03	4.707777E-03
144.00	7.879780E-03	1.891684E-02	2.846241E-03	4.539839E-03
146.00	7.540234E-03	1.964223E-02	2.329185E-03	4.269891E-03
148.00	7.194307E-03	2.031687E-02	1.657560E-03	3.886757E-03
150.00	6.851456E-03	2.092231E-02	8.156664E-04	3.402729E-03
152.00	6.567094E-03	2.144281E-02	-2.066765E-04	2.825103E-03
154.00	6.398677E-03	2.186920E-02	-1.414479E-03	2.172349E-03
156.00	6.405717E-03	2.219591E-02	-2.810143E-03	1.465203E-03
158.00	6.649912E-03	2.241292E-02	-4.394969E-03	7.241705E-04
160.00	7.202524E-03	2.251137E-02	-6.163863E-03	-2.247006E-05
162.00	8.142079E-03	2.250455E-02	-8.092834E-03	-7.264051E-04
164.00	9.569454E-03	2.247173E-02	-1.015443E-02	-1.298159E-03
166.00	1.149965E-02	2.252164E-02	-1.231616E-02	-1.631499E-03
168.00	1.385678E-02	2.290517E-02	-1.457975E-02	-1.710247E-03
170.00	1.648542E-02	2.348638E-02	-1.691229E-02	-1.604462E-03
172.00	1.920953E-02	2.427554E-02	-1.926508E-02	-1.356734E-03
174.00	2.182454E-02	2.516227E-02	-2.157975E-02	-1.063940E-03
176.00	2.412821E-02	2.600757E-02	-2.377213E-02	-7.074219E-04
178.00	2.579379E-02	2.649218E-02	-2.574559E-02	-3.661464E-04
180.00	2.665818E-02	2.665818E-02	-2.665818E-02	-3.102758E-17

TABLE 32. NORMALIZED PHASE MATRIX FOR TYPE C AEROSOLS, MODEL 100, λ=0.55μ

M=1.55-0.01I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	9.235094E+01	9.235094E+01	9.235094E+01	-6.730054E-14
.10	9.030815E+01	9.030892E+01	9.030853E+01	-1.261378E-02
.20	8.446124E+01	8.446011E+01	8.446206E+01	-4.727222E-02
.30	7.559600E+01	7.559172E+01	7.559740E+01	-9.539105E-02
.40	6.403509E+01	6.404353E+01	6.403912E+01	-1.455437E-01
.50	5.342438E+01	5.343672E+01	5.342910E+01	-1.867392E-01
.60	4.249693E+01	4.250705E+01	4.250170E+01	-2.113325E-01
.70	3.290042E+01	3.291061E+01	3.290654E+01	-2.166876E-01
.80	2.510555E+01	2.511375E+01	2.510845E+01	-2.050522E-01
.90	1.920023E+01	1.921374E+01	1.920959E+01	-1.822096E-01
1.00	1.501050E+01	1.501323E+01	1.501040E+01	-1.553031E-01
1.10	1.214424E+01	1.214439E+01	1.214287E+01	-1.301368E-01
1.20	1.013747E+01	1.019560E+01	1.019510E+01	-1.103259E-01
1.30	8.812775E+00	8.809673E+00	8.809023E+00	-9.469739E-02
1.40	7.730876E+00	7.736955E+00	7.735562E+00	-8.730160E-02
1.50	6.830700E+00	6.832255E+00	6.833167E+00	-8.199388E-02
1.60	6.053084E+00	6.048230E+00	6.049326E+00	-7.677002E-02
1.70	5.351304E+00	5.376054E+00	5.322314E+00	-7.125699E-02
1.80	4.827772E+00	4.820121E+00	4.821602E+00	-6.540022E-02
1.90	4.381127E+00	4.375118E+00	4.374203E+00	-5.981240E-02
2.00	4.027445E+00	4.021140E+00	4.022996E+00	-5.514536E-02
3.00	2.172640E+00	2.165793E+00	2.168410E+00	-3.445389E-02
4.00	1.527234E+00	1.526566E+00	1.522731E+00	-2.539150E-02
5.00	1.231918E+00	1.225573E+00	1.222594E+00	-2.054139E-02
6.00	1.070697E+00	1.064734E+00	1.066570E+00	-1.802680E-02
7.00	9.571663E-01	9.510257E-01	9.532294E-01	-1.716107E-02
8.00	8.523739E-01	8.472112E-01	8.485759E-01	-1.600895E-02
9.00	8.040039E-01	8.237540E-01	8.308976E-01	-1.695939E-02
10.00	7.670011E-01	7.630365E-01	7.640358E-01	-1.731583E-02
11.00	7.475904E-01	7.432405E-01	7.439803E-01	-1.789810E-02
12.00	7.120343E-01	7.078967E-01	7.084351E-01	-1.863023E-02
13.00	6.797039E-01	6.756349E-01	6.759725E-01	-1.947506E-02
14.00	6.493441E-01	6.455764E-01	6.457086E-01	-2.036403E-02
15.00	6.201965E-01	6.171328E-01	6.171136E-01	-2.122781E-02
16.00	5.935410E-01	5.908034E-01	5.698136E-01	-2.219094E-02
17.00	5.673044E-01	5.639868E-01	5.635105E-01	-2.308462E-02
18.00	5.419529E-01	5.387764E-01	5.381655E-01	-2.394011E-02
19.00	5.173896E-01	5.143391E-01	5.134376E-01	-2.473608E-02
20.00	4.935609E-01	4.906416E-01	4.895765E-01	-2.545849E-02
22.00	4.483033E-01	4.453003E-01	4.439025E-01	-2.664101E-02
24.00	4.153055E-01	4.030101E-01	4.010440E-01	-2.744167E-02
26.00	3.659998E-01	3.635629E-01	3.611042E-01	-2.785009E-02
28.00	3.287810E-01	3.276901E-01	3.242002E-01	-2.788151E-02
30.00	2.949973E-01	2.935426E-01	2.981697E-01	-2.756328E-02
32.00	2.635051E-01	2.620954E-01	2.590334E-01	-2.692929E-02
34.00	2.357376E-01	2.356609E-01	2.347247E-01	-2.600732E-02
36.00	2.103179E-01	2.099431E-01	2.051676E-01	-2.484031E-02
38.00	1.875178E-01	1.874086E-01	1.822340E-01	-2.348204E-02
40.00	1.671707E-01	1.672027E-01	1.617624E-01	-2.198460E-02
42.00	1.491196E-01	1.493455E-01	1.435730E-01	-2.039616E-02
44.00	1.331690E-01	1.334604E-01	1.274961E-01	-1.875915E-02
46.00	1.191349E-01	1.194177E-01	1.133311E-01	-1.712408E-02
48.00	1.060610E-01	1.067621E-01	1.008762E-01	-1.552981E-02
50.00	9.573130E-02	9.600435E-02	8.993431E-02	-1.400110E-02
52.00	8.614057E-02	9.043575E-02	8.032571E-02	-1.255650E-02
54.00	7.821867E-02	7.791085E-02	7.188173E-02	-1.120961E-02
56.00	7.177068E-02	7.038914E-02	6.440396E-02	-9.969072E-03
58.00	6.433617E-02	6.372989E-02	5.792630E-02	-8.836539E-03

SCATTERING ANGLE	I1	I2	I3	I4
60.00	5.654117E-02	5.783096E-02	5.215544E-02	-7.089943E-03
62.00	5.352292E-02	5.259640E-02	4.784694E-02	-6.883158E-03
64.00	4.981738E-02	4.794257E-02	4.251404E-02	-6.048848E-03
66.00	4.510037E-02	4.372942E-02	3.868110E-02	-5.299156E-03
68.00	4.141183E-02	4.010046E-02	3.480610E-02	-4.625690E-03
70.00	3.819664E-02	3.681212E-02	3.167566E-02	-4.021259E-03
72.00	3.531060E-02	3.387090E-02	2.888155E-02	-3.478574E-03
74.00	3.274964E-02	3.126448E-02	2.622672E-02	-2.991060E-03
76.00	3.035937E-02	2.889903E-02	2.390899E-02	-2.551500E-03
78.00	2.823013E-02	2.680257E-02	2.182616E-02	-2.152133E-03
80.00	2.629496E-02	2.493774E-02	1.994475E-02	-1.785583E-03
82.00	2.454407E-02	2.327948E-02	1.824751E-02	-1.447256E-03
84.00	2.294615E-02	2.170181E-02	1.671111E-02	-1.132136E-03
86.00	2.148563E-02	2.045213E-02	1.531737E-02	-8.457343E-04
88.00	2.015995E-02	1.926419E-02	1.405091E-02	-5.539680E-04
90.00	1.894688E-02	1.820303E-02	1.269891E-02	-2.837975E-04
92.00	1.763940E-02	1.725512E-02	1.104900E-02	-2.292355E-05
94.00	1.683060E-02	1.640895E-02	1.009409E-02	2.330861E-04
96.00	1.591309E-02	1.565496E-02	1.002352E-02	4.705947E-04
98.00	1.508160E-02	1.498548E-02	9.231133E-03	7.216527E-04
100.00	1.433234E-02	1.439510E-02	8.511960E-03	9.605155E-04
102.00	1.360106E-02	1.367818E-02	7.861665E-03	1.195129E-03
104.00	1.306285E-02	1.343197E-02	7.275877E-03	1.425803E-03
106.00	1.253293E-02	1.305413E-02	6.751590E-03	1.649677E-03
108.00	1.206627E-02	1.274383E-02	6.284747E-03	1.868197E-03
110.00	1.165765E-02	1.250832E-02	5.871620E-03	2.081276E-03
112.00	1.130249E-02	1.232271E-02	5.508282E-03	2.288121E-03
114.00	1.099372E-02	1.221489E-02	5.189776E-03	2.487638E-03
116.00	1.072358E-02	1.216449E-02	4.910251E-03	2.678193E-03
118.00	1.049388E-02	1.218104E-02	4.663316E-03	2.859627E-03
120.00	1.026587E-02	1.226776E-02	4.441543E-03	3.029611E-03
122.00	1.008847E-02	1.241517E-02	4.238625E-03	3.187484E-03
124.00	9.856931E-03	1.261875E-02	4.039890E-03	3.331073E-03
126.00	9.652530E-03	1.287644E-02	3.841734E-03	3.457391E-03
128.00	9.433419E-03	1.318206E-02	3.631095E-03	3.563249E-03
130.00	9.192592E-03	1.353010E-02	3.399491E-03	3.645752E-03
132.00	8.935470E-03	1.391414E-02	3.135267E-03	3.701893E-03
134.00	8.651978E-03	1.432744E-02	2.827620E-03	3.729952E-03
136.00	8.347515E-03	1.476289E-02	2.467247E-03	3.725267E-03
138.00	8.028249E-03	1.521391E-02	2.046113E-03	3.689186E-03
140.00	7.743716E-03	1.567403E-02	1.557912E-03	3.616660E-03
142.00	7.385989E-03	1.613635E-02	9.923392E-04	3.511753E-03
144.00	7.089654E-03	1.659297E-02	3.605344E-04	3.367820E-03
146.00	6.833828E-03	1.703643E-02	-3.568275E-04	3.186870E-03
148.00	6.630944E-03	1.746175E-02	-1.148637E-03	2.963630E-03
150.00	6.521464E-03	1.786408E-02	-2.021163E-03	2.702642E-03
152.00	6.527771E-03	1.823413E-02	-2.972498E-03	2.407560E-03
154.00	6.617442E-03	1.854536E-02	-4.063407E-03	2.086733E-03
156.00	6.679996E-03	1.882394E-02	-5.115520E-03	1.685929E-03
158.00	7.328967E-03	1.902243E-02	-6.309958E-03	1.274628E-03
160.00	8.032987E-03	1.914751E-02	-7.584229E-03	8.478541E-04
162.00	8.939353E-03	1.919892E-02	-8.925867E-03	4.226833E-04
164.00	1.017280E-02	1.922163E-02	-1.030390E-02	4.739375E-05
166.00	1.169424E-02	1.933737E-02	-1.172629E-02	-2.181884E-04
168.00	1.343942E-02	1.961736E-02	-1.321692E-02	-3.609523E-04
170.00	1.529095E-02	2.007926E-02	-1.477658E-02	-4.353575E-04
172.00	1.714502E-02	2.059175E-02	-1.640322E-02	-4.693315E-04
174.00	1.895124E-02	2.140342E-02	-1.807323E-02	-4.672327E-04
176.00	2.054669E-02	2.205928E-02	-1.979466E-02	-4.451524E-04
178.00	2.172720E-02	2.236938E-02	-2.157761E-02	-3.278789E-04
180.00	2.246740E-02	2.246740E-02	-2.246740E-02	-2.171427E-17

TABLE D3. NORMALIZED PHASE MATRIX FOR TYPE C AEROSOLS, MODEL 100, λ=0.70μ

M=1.55-0.01I

SCATTERING ANGLE	I1	I2	I3	I4
0.0	7.139112E+01	7.139112E+01	7.139112E+01	-6.795075E-14
.10	7.140113E+01	7.090108E+01	7.090140E+01	-7.221429E-03
.20	6.601653E+01	6.801645E+01	6.601758E+01	-2.966306E-02
.30	6.246215E+01	6.346354E+01	6.348431E+01	-6.239004E-02
.40	5.767011E+01	5.757710E+01	5.767350E+01	-1.009038E-01
.50	5.103225E+01	5.104171E+01	5.103676E+01	-1.392651E-01
.60	4.404494E+01	4.405032E+01	4.405023E+01	-1.730955E-01
.70	3.721548E+01	3.710731E+01	3.714445E+01	-1.974502E-01
.80	3.073391E+01	3.074040E+01	3.073925E+01	-2.103942E-01
.90	2.504896E+01	2.506054E+01	2.505355E+01	-2.116854E-01
1.0	2.024955E+01	2.025933E+01	2.025303E+01	-2.028639E-01
1.1	1.637306E+01	1.638053E+01	1.637515E+01	-1.867224E-01
1.2	1.336411E+01	1.336903E+01	1.336478E+01	-1.666374E-01
1.3	1.110290E+01	1.110532E+01	1.110225E+01	-1.454205E-01
1.4	9.430499E+00	9.430827E+00	9.434853E+00	-1.268143E-01
1.5	8.208117E+00	8.206557E+00	8.205517E+00	-1.111484E-01
1.6	7.275089E+00	7.275192E+00	7.274081E+00	-9.930027E-02
1.7	6.538032E+00	6.534196E+00	6.534413E+00	-9.084894E-02
1.8	5.914490E+00	5.910015E+00	5.910594E+00	-8.495817E-02
1.9	5.365817E+00	5.360446E+00	5.361714E+00	-8.045038E-02
2.0	4.874260E+00	4.865898E+00	4.869972E+00	-7.642460E-02
3.0	2.426067E+00	2.421289E+00	2.423466E+00	-4.572582E-02
4.0	1.385110E+00	1.377298E+00	1.379715E+00	-3.221988E-02
5.0	1.204177E+00	1.186349E+00	1.196795E+00	-2.508105E-02
6.0	1.000117E+00	9.923785E-01	9.947900E-01	-2.091897E-02
7.0	8.750114E-01	8.679696E-01	8.703275E-01	-1.860304E-02
8.0	7.921612E-01	7.846053E-01	7.869069E-01	-1.697980E-02
9.0	7.308273E-01	7.233125E-01	7.255463E-01	-1.623630E-02
10.0	6.830637E-01	6.755395E-01	6.777740E-01	-1.584993E-02
11.0	6.441196E-01	6.364712E-01	6.386536E-01	-1.569131E-02
12.0	6.113053E-01	6.034775E-01	6.056819E-01	-1.567571E-02
13.0	5.828417E-01	5.747794E-01	5.770310E-01	-1.579320E-02
14.0	5.575064E-01	5.492082E-01	5.515340E-01	-1.601769E-02
15.0	5.345848E-01	5.258979E-01	5.283243E-01	-1.633336E-02
16.0	5.132990E-01	5.042400E-01	5.067844E-01	-1.671273E-02
17.0	4.933306E-01	4.838743E-01	4.865479E-01	-1.713276E-02
18.0	4.744140E-01	4.645312E-01	4.673753E-01	-1.757538E-02
19.0	4.563546E-01	4.460368E-01	4.490183E-01	-1.803488E-02
20.0	4.389900E-01	4.282455E-01	4.313833E-01	-1.851066E-02
22.0	4.059868E-01	3.943621E-01	3.978815E-01	-1.943629E-02
24.0	3.744664E-01	3.624809E-01	3.661194E-01	-2.026610E-02
26.0	3.454543E-01	3.324067E-01	3.361900E-01	-2.094485E-02
28.0	3.172291E-01	3.040976E-01	3.079530E-01	-2.143526E-02
30.0	2.916708E-01	2.775628E-01	2.814234E-01	-2.173265E-02
32.0	2.672652E-01	2.527882E-01	2.565834E-01	-2.184320E-02
34.0	2.444749E-01	2.298609E-01	2.334219E-01	-2.177954E-02
36.0	2.232607E-01	2.084562E-01	2.119874E-01	-2.155626E-02
38.0	2.035025E-01	1.888325E-01	1.919652E-01	-2.119051E-02
40.0	1.853642E-01	1.707534E-01	1.735954E-01	-2.066923E-02
42.0	1.686916E-01	1.542394E-01	1.566846E-01	-2.003495E-02
44.0	1.531450E-01	1.391099E-01	1.412057E-01	-1.930463E-02
46.0	1.390376E-01	1.255363E-01	1.270643E-01	-1.845565E-02
48.0	1.261027E-01	1.131784E-01	1.142685E-01	-1.752921E-02
50.0	1.145008E-01	1.023419E-01	1.026580E-01	-1.654575E-02
52.0	1.034142E-01	9.202762E-02	9.217254E-02	-1.552164E-02
54.0	9.434702E-02	8.304333E-02	8.272902E-02	-1.447213E-02
56.0	8.572314E-02	7.439834E-02	7.424288E-02	-1.341084E-02
58.0	7.792064E-02	6.780477E-02	6.663167E-02	-1.234852E-02

SCATTERING ANGLE	I1	I2	I3	I4
60.0	7.039535E-02	6.137354E-02	5.961734E-02	-1.129677E-02
62.0	6.475461E-02	5.504566E-02	5.372941E-02	-1.026670E-02
64.0	5.917529E-02	5.093233E-02	4.829077E-02	-9.266708E-03
66.0	5.419138E-02	4.597289E-02	4.345775E-02	-8.313153E-03
68.0	4.973630E-02	4.193549E-02	3.914010E-02	-7.404667E-03
70.0	4.577330E-02	3.827491E-02	3.528598E-02	-6.546654E-03
72.0	4.219457E-02	3.503262E-02	3.185331E-02	-5.741409E-03
74.0	3.901205E-02	3.213637E-02	2.876189E-02	-4.989497E-03
76.0	3.616604E-02	2.954915E-02	2.605141E-02	-4.291820E-03
78.0	3.361846E-02	2.723040E-02	2.366043E-02	-3.648901E-03
80.0	3.133341E-02	2.517112E-02	2.141934E-02	-3.057644E-03
82.0	2.928055E-02	2.332647E-02	1.946075E-02	-2.516052E-03
84.0	2.743250E-02	2.167953E-02	1.770616E-02	-2.021436E-03
86.0	2.576582E-02	2.021186E-02	1.612623E-02	-1.571157E-03
88.0	2.426056E-02	1.890792E-02	1.471199E-02	-1.162271E-03
90.0	2.289709E-02	1.773364E-02	1.343739E-02	-7.905519E-04
92.0	2.165911E-02	1.673517E-02	1.228643E-02	-4.521676E-04
94.0	2.053166E-02	1.584351E-02	1.125197E-02	-1.439535E-04
96.0	1.950234E-02	1.506179E-02	1.031213E-02	1.379916E-04
98.0	1.856656E-02	1.439372E-02	9.466634E-03	3.971624E-04
100.0	1.770627E-02	1.381097E-02	8.667133E-03	6.306781E-04
102.0	1.693735E-02	1.333482E-02	7.980777E-03	8.574649E-04
104.0	1.614338E-02	1.293123E-02	7.332437E-03	1.064544E-03
106.0	1.544925E-02	1.260961E-02	6.733628E-03	1.260177E-03
108.0	1.479970E-02	1.235469E-02	6.177245E-03	1.445044E-03
110.0	1.416790E-02	1.210178E-02	5.656258E-03	1.622441E-03
112.0	1.357069E-02	1.202731E-02	5.163491E-03	1.790593E-03
114.0	1.305757E-02	1.194566E-02	4.691920E-03	1.951689E-03
116.0	1.255677E-02	1.191249E-02	4.235640E-03	2.104565E-03
118.0	1.202534E-02	1.192154E-02	3.787060E-03	2.251472E-03
120.0	1.153917E-02	1.196318E-02	3.342516E-03	2.391470E-03
122.0	1.107321E-02	1.204905E-02	2.896944E-03	2.524193E-03
124.0	1.062576E-02	1.216360E-02	2.446033E-03	2.648837E-03
126.0	1.019628E-02	1.230769E-02	1.980302E-03	2.764711E-03
128.0	9.792053E-03	1.247092E-02	1.519529E-03	2.870401E-03
130.0	9.409694E-03	1.267018E-02	1.037387E-03	2.954125E-03
132.0	9.054419E-03	1.288473E-02	5.394545E-04	3.043047E-03
134.0	8.729703E-03	1.311688E-02	2.394223E-05	3.107669E-03
136.0	8.440087E-03	1.337165E-02	-5.182405E-04	3.153745E-03
138.0	8.192180E-03	1.354263E-02	-1.083637E-03	3.180384E-03
140.0	7.990495E-03	1.393169E-02	-1.630213E-03	3.185145E-03
142.0	7.829665E-03	1.423927E-02	-2.228210E-03	3.163829E-03
144.0	7.728693E-03	1.456240E-02	-2.840494E-03	3.124875E-03
146.0	7.684190E-03	1.489122E-02	-3.474185E-03	3.053469E-03
148.0	7.703730E-03	1.523883E-02	-4.131055E-03	2.943061E-03
150.0	7.795437E-03	1.558442E-02	-4.813756E-03	2.802335E-03
152.0	7.971003E-03	1.593314E-02	-5.525684E-03	2.631021E-03
154.0	8.244050E-03	1.626440E-02	-6.271766E-03	2.422452E-03
156.0	8.631579E-03	1.663417E-02	-7.059084E-03	2.210071E-03
158.0	9.144751E-03	1.693040E-02	-7.895902E-03	1.961472E-03
160.0	9.739725E-03	1.725499E-02	-8.785493E-03	1.681784E-03
162.0	1.061099E-02	1.740441E-02	-9.729643E-03	1.357308E-03
164.0	1.161542E-02	1.751422E-02	-1.066263E-02	1.027476E-03
166.0	1.232497E-02	1.784317E-02	-1.163139E-02	7.417407E-04
168.0	1.415474E-02	1.821398E-02	-1.266641E-02	5.019421E-04
170.0	1.553743E-02	1.874350E-02	-1.385450E-02	2.571759E-04
172.0	1.697612E-02	1.944635E-02	-1.513934E-02	3.939435E-05
174.0	1.844490E-02	2.025019E-02	-1.658547E-02	-1.732130E-04
176.0	1.954712E-02	2.037329E-02	-1.830945E-02	-3.664675E-04
178.0	2.061394E-02	2.126734E-02	-2.030759E-02	-3.741505E-04
180.0	2.137403E-02	2.137403E-02	-2.137403E-02	-2.043767E-17

TABLE D4. NORMALIZED PHASE MATRIX FOR TYPE C AEROSOLS, MODEL 100, λ=1.60μ

M=1.55-0.01I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	4.043656E+01	4.043656E+01	4.043656E+01	-3.719105E-14
.10	4.032726E+01	4.032726E+01	4.032716E+01	-1.856303E-02
.20	4.000044E+01	4.000126E+01	4.000085E+01	-7.366746E-03
.30	3.946227E+01	3.946400E+01	3.946317E+01	-1.135810E-02
.40	3.872106E+01	3.872402E+01	3.872323E+01	-2.054925E-02
.50	3.779100E+01	3.779569E+01	3.779343E+01	-4.356126E-02
.60	3.665858E+01	3.669254E+01	3.668915E+01	-6.093220E-02
.70	3.542411E+01	3.543281E+01	3.542036E+01	-8.413011E-02
.80	3.402507E+01	3.403673E+01	3.403113E+01	-1.005925E-01
.90	3.251292E+01	3.252597E+01	3.251910E+01	-1.217074E-01
1.00	3.090810E+01	3.092329E+01	3.091531E+01	-1.420746E-01
1.10	2.923479E+01	2.925201E+01	2.924287E+01	-1.635467E-01
1.20	2.751030E+01	2.753543E+01	2.752510E+01	-1.838531E-01
1.30	2.577509E+01	2.579635E+01	2.578510E+01	-2.010170E-01
1.40	2.403402E+01	2.405659E+01	2.404444E+01	-2.169747E-01
1.50	2.231057E+01	2.233322E+01	2.232160E+01	-2.305792E-01
1.60	2.063114E+01	2.065469E+01	2.064110E+01	-2.415769E-01
1.70	1.900380E+01	1.902758E+01	1.901300E+01	-2.498078E-01
1.80	1.744507E+01	1.746931E+01	1.745512E+01	-2.552071E-01
1.90	1.596038E+01	1.598151E+01	1.597224E+01	-2.578022E-01
2.00	1.458097E+01	1.460324E+01	1.458900E+01	-2.577060E-01
3.00	5.939063E+00	5.940304E+00	5.492836E+00	-1.705451E-01
4.00	3.433437E+00	3.430496E+00	3.429975E+00	-1.051565E-01
5.00	2.243478E+00	2.234672E+00	2.232327E+00	-8.179780E-02
6.00	1.629044E+00	1.616489E+00	1.618754E+00	-6.180813E-02
7.00	1.253407E+00	1.245466E+00	1.248230E+00	-5.369360E-02
8.00	1.003159E+00	9.891905E-01	9.916297E-01	-4.432664E-02
9.00	8.418141E-01	8.274431E-01	8.303030E-01	-3.859220E-02
10.00	7.131810E-01	7.042144E-01	7.065893E-01	-3.389395E-02
11.00	6.303119E-01	6.105983E-01	6.109407E-01	-3.001907E-02
12.00	5.534227E-01	5.467176E-01	5.488916E-01	-2.712228E-02
13.00	5.072018E-01	4.935316E-01	4.956712E-01	-2.442420E-02
14.00	4.635110E-01	4.499046E-01	4.519921E-01	-2.255934E-02
15.00	4.274430E-01	4.108577E-01	4.159780E-01	-2.063900E-02
16.00	3.974408E-01	3.841986E-01	3.860430E-01	-1.924549E-02
17.00	3.717057E-01	3.584090E-01	3.602906E-01	-1.789632E-02
18.00	3.444102E-01	3.362005E-01	3.380765E-01	-1.698159E-02
19.00	3.291245E-01	3.159347E-01	3.178338E-01	-1.593624E-02
20.00	3.115200E-01	2.983863E-01	3.003381E-01	-1.505333E-02
22.00	2.809135E-01	2.674728E-01	2.694092E-01	-1.366077E-02
24.00	2.557918E-01	2.419283E-01	2.443859E-01	-1.229581E-02
26.00	2.343023E-01	2.199740E-01	2.227326E-01	-1.116330E-02
28.00	2.157933E-01	2.008230E-01	2.038754E-01	-1.023708E-02
30.00	1.990006E-01	1.839040E-01	1.673440E-01	-9.485147E-03
32.00	1.852428E-01	1.688354E-01	1.725178E-01	-8.617674E-03
34.00	1.722541E-01	1.551240E-01	1.588755E-01	-7.948585E-03
36.00	1.600610E-01	1.426976E-01	1.469406E-01	-7.340762E-03
38.00	1.504181E-01	1.313293E-01	1.350304E-01	-6.701554E-03
40.00	1.405019E-01	1.206564E-01	1.256791E-01	-6.227247E-03
42.00	1.317431E-01	1.111914E-01	1.162640E-01	-5.779128E-03
44.00	1.236894E-01	1.022864E-01	1.075956E-01	-5.385516E-03
46.00	1.162470E-01	9.403125E-02	9.953619E-02	-5.003603E-03
48.00	1.092991E-01	8.635408E-02	9.190823E-02	-4.649865E-03
50.00	1.020305E-01	7.342469E-02	8.493120E-02	-4.337461E-03
52.00	9.667576E-02	7.203203E-02	7.838041E-02	-4.053617E-03
54.00	9.134199E-02	6.621095E-02	7.227367E-02	-3.743709E-03
56.00	8.610316E-02	6.084423E-02	6.653156E-02	-3.496945E-03
58.00	8.134054E-02	5.554410E-02	6.114085E-02	-3.241657E-03

SCATTERING ANGLE	I1	I2	I3	I4
60.00	7.678349E-02	5.074326E-02	5.611447E-02	-3.041866E-03
62.00	7.240062E-02	4.627103E-02	5.141760E-02	-2.755346E-03
64.00	6.807304E-02	4.215353E-02	4.702290E-02	-2.495340E-03
66.00	6.480459E-02	3.837217E-02	4.298585E-02	-2.237312E-03
68.00	6.159610E-02	3.490913E-02	3.966300E-02	-1.991040E-03
70.00	5.843088E-02	3.174441E-02	3.548971E-02	-1.748360E-03
72.00	5.549912E-02	2.885725E-02	3.216486E-02	-1.508968E-03
74.00	5.275409E-02	2.623249E-02	2.985371E-02	-1.252925E-03
76.00	5.020109E-02	2.385302E-02	2.617635E-02	-1.020131E-03
78.00	4.783135E-02	2.170826E-02	2.349679E-02	-8.092766E-04
80.00	4.562862E-02	1.976954E-02	2.101091E-02	-6.149354E-04
82.00	4.355740E-02	1.802329E-02	1.864467E-02	-4.314923E-04
84.00	4.160054E-02	1.647701E-02	1.651635E-02	-2.637270E-04
86.00	3.974696E-02	1.510875E-02	1.448523E-02	-1.134858E-04
88.00	3.807106E-02	1.389948E-02	1.259994E-02	2.941610E-05
90.00	3.646198E-02	1.284792E-02	1.083468E-02	1.783221E-04
92.00	3.494710E-02	1.194394E-02	9.203873E-03	3.056904E-04
94.00	3.352645E-02	1.117555E-02	7.663412E-03	4.432262E-04
96.00	3.219698E-02	1.053193E-02	6.209266E-03	5.552958E-04
98.00	3.094296E-02	1.004753E-02	4.872466E-03	6.874557E-04
100.00	2.978799E-02	9.595505E-03	3.626430E-03	8.120623E-04
102.00	2.870092E-02	9.243963E-03	2.468608E-03	9.311642E-04
104.00	2.765772E-02	9.062410E-03	1.391483E-03	1.047434E-03
106.00	2.673960E-02	8.926148E-03	3.873401E-04	1.159158E-03
108.00	2.585800E-02	8.859081E-03	-5.518989E-04	1.260772E-03
110.00	2.501592E-02	8.850331E-03	-1.420390E-03	1.352536E-03
112.00	2.423127E-02	8.914184E-03	-2.251650E-03	1.437111E-03
114.00	2.349213E-02	9.032242E-03	-3.026183E-03	1.514156E-03
116.00	2.279805E-02	9.206170E-03	-3.753725E-03	1.589464E-03
118.00	2.215124E-02	9.436520E-03	-4.437440E-03	1.658100E-03
120.00	2.154853E-02	9.717611E-03	-5.079626E-03	1.727746E-03
122.00	2.099248E-02	1.005196E-02	-5.679452E-03	1.801566E-03
124.00	2.048364E-02	1.043464E-02	-6.239149E-03	1.888697E-03
126.00	2.002135E-02	1.086201E-02	-6.761107E-03	1.960623E-03
128.00	1.960539E-02	1.133428E-02	-7.242494E-03	2.051233E-03
130.00	1.923049E-02	1.184826E-02	-7.689436E-03	2.141881E-03
132.00	1.890428E-02	1.240010E-02	-8.102059E-03	2.235162E-03
134.00	1.862508E-02	1.300862E-02	-8.482422E-03	2.330606E-03
136.00	1.830361E-02	1.365431E-02	-8.833919E-03	2.429567E-03
138.00	1.812257E-02	1.435430E-02	-9.160711E-03	2.531289E-03
140.00	1.802121E-02	1.510929E-02	-9.467163E-03	2.636173E-03
142.00	1.798616E-02	1.591558E-02	-9.759600E-03	2.745553E-03
144.00	1.702202E-02	1.678475E-02	-1.004200E-02	2.862429E-03
146.00	1.779363E-02	1.772401E-02	-1.032271E-02	2.980486E-03
148.00	1.781727E-02	1.875637E-02	-1.061026E-02	3.120431E-03
150.00	1.789801E-02	1.986612E-02	-1.091842E-02	3.271384E-03
152.00	1.805123E-02	2.105340E-02	-1.126790E-02	3.411436E-03
154.00	1.823590E-02	2.231044E-02	-1.168272E-02	3.530051E-03
156.00	1.860214E-02	2.361019E-02	-1.219825E-02	3.642430E-03
158.00	1.921442E-02	2.492031E-02	-1.282471E-02	3.699127E-03
160.00	2.001330E-02	2.610877E-02	-1.362751E-02	3.653679E-03
162.00	2.115403E-02	2.701181E-02	-1.452406E-02	3.445481E-03
164.00	2.272722E-02	2.778043E-02	-1.555151E-02	3.133972E-03
166.00	2.472420E-02	2.870464E-02	-1.663110E-02	2.885553E-03
168.00	2.695751E-02	3.001135E-02	-1.796328E-02	2.555514E-03
170.00	2.906230E-02	3.174286E-02	-1.965596E-02	1.945019E-03
172.00	3.107051E-02	3.369112E-02	-2.187492E-02	1.204422E-03
174.00	3.316113E-02	3.622843E-02	-2.491345E-02	2.541769E-04
176.00	3.530144E-02	3.840321E-02	-2.909919E-02	-7.682097E-04
178.00	3.663643E-02	3.880161E-02	-3.340811E-02	-1.292098E-03
180.00	3.890739E-02	3.890739E-02	-3.890739E-02	-6.306681E-17

TABLE D5. NORMALIZED PHASE MATRIX FOR TYPE C AEROSOLS, MODEL 300, λ=0.45μ

M=1.55-0.01I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	7.049759E+00	7.049759E+00	7.049759E+00	-6.56[illegible]E-15
.10	6.979622E+00	6.979667E+00	6.939649E+00	-6.94271[illegible]E-04
.20	6.626074E+00	6.616243E+00	6.626187E+00	[illegible]
.30	6.155727E+00	6.155666E+00	6.155493E+00	-5.248228E-03
.40	5.591346E+00	5.561062E+00	5.591594E+00	[illegible]
.50	5.008938E+00	5.001600E+00	5.001249E+00	-1.043838E-02
.60	4.440264E+00	4.441010E+00	4.440000E+00	-1.210930E-02
.70	3.946462E+00	3.947253E+00	3.946818E+00	-1.297567E-02
.80	3.535027E+00	3.536007E+00	3.534151E+00	[illegible]
.90	3.207491E+00	3.200232E+00	3.207707E+00	-1.292944E-02
1.00	2.950104E+00	2.950799E+00	2.950369E+00	-1.249534E-02
1.10	2.740491E+00	2.749130E+00	2.740723E+00	-1.2041[illegible]
1.20	2.500364E+00	2.510977E+00	2.500574E+00	[illegible]
1.30	2.450479E+00	2.459071E+00	2.450673E+00	-1.130352E-02
1.40	2.350720E+00	2.351313E+00	2.350914E+00	-1.121372E-02
1.50	2.259319E+00	2.259910E+00	2.259504E+00	-1.114327E-02
1.60	2.179934E+00	2.180643E+00	2.180125E+00	-1.116015E-02
1.70	2.109329E+00	2.109957E+00	2.109522E+00	-1.124417E-02
1.80	2.045219E+00	2.045878E+00	2.045419E+00	-1.136575E-02
1.90	1.986290E+00	1.986971E+00	1.986497E+00	-1.149215E-02
2.00	1.931992E+00	1.932640E+00	1.932204E+00	-1.159040E-02
3.00	1.590205E+00	1.581126E+00	1.580450E+00	-1.229403E-02
4.00	1.392564E+00	1.393779E+00	1.392073E+00	-1.345434E-02
5.00	1.265344E+00	1.266979E+00	1.265710E+00	-1.468167E-02
6.00	1.170940E+00	1.172009E+00	1.171357E+00	-1.594603E-02
7.00	1.096001E+00	1.090713E+00	1.096554E+00	-1.709500E-02
8.00	1.034094E+00	1.036744E+00	1.034641E+00	-1.838249E-02
9.00	9.803379E-01	9.834638E-01	9.809826E-01	-1.983382E-02
10.00	9.317105E-01	9.353071E-01	9.324779E-01	-2.142007E-02
11.00	8.863986E-01	8.906480E-01	8.872687E-01	-2.308260E-02
12.00	8.433768E-01	8.462104E-01	8.443244E-01	-2.475694E-02
13.00	8.019879E-01	8.075099E-01	8.030955E-01	-2.639100E-02
14.00	7.620304E-01	7.681927E-01	7.632225E-01	-2.792097E-02
15.00	7.237799E-01	7.301709E-01	7.246613E-01	-2.933214E-02
16.00	6.858946E-01	6.933962E-01	6.873420E-01	-3.050554E-02
17.00	6.498467E-01	6.578798E-01	6.517509E-01	-3.167953E-02
18.00	6.149328E-01	6.234904E-01	6.163010E-01	-3.260730E-02
19.00	5.812563E-01	5.903577E-01	5.827411E-01	-3.336559E-02
20.00	5.488273E-01	5.584269E-01	5.503360E-01	-3.395150E-02
22.00	4.877795E-01	4.983237E-01	4.893089E-01	-3.460371E-02
24.00	4.319104E-01	4.432549E-01	4.333911E-01	-3.456502E-02
26.00	3.812706E-01	3.932753E-01	3.826255E-01	-3.394436E-02
28.00	3.350902E-01	3.482065E-01	3.369712E-01	-3.279632E-02
30.00	2.954553E-01	3.080611E-01	2.967521E-01	-3.106032E-02
32.00	2.599725E-01	2.725521E-01	2.605372E-01	-2.905190E-02
34.00	2.290744E-01	2.413136E-01	2.291580E-01	-2.663975E-02
36.00	2.020194E-01	2.139307E-01	2.017932E-01	-2.453049E-02
38.00	1.786659E-01	1.900703E-01	1.780130E-01	-2.221115E-02
40.00	1.584816E-01	1.691595E-01	1.574009E-01	-1.995376E-02
42.00	1.410489E-01	1.509703E-01	1.395696E-01	-1.781631E-02
44.00	1.259739E-01	1.350971E-01	1.241126E-01	-1.584252E-02
46.00	1.129973E-01	1.212155E-01	1.106843E-01	-1.405796E-02
48.00	1.014450E-01	1.090377E-01	9.896575E-02	-1.247183E-02
50.00	9.147316E-02	9.821458E-02	8.869468E-02	-1.107778E-02
52.00	8.262728E-02	8.884608E-02	7.963222E-02	-9.850349E-03
54.00	7.477926E-02	8.044559E-02	7.160101E-02	-8.786271E-03
56.00	6.776177E-02	7.291827E-02	6.445468E-02	-7.833637E-03
58.00	6.149707E-02	6.635922E-02	5.808725E-02	-6.975085E-03

SCATTERING ANGLE	I1	I2	I3	I4
60.00	5.590367E-02	6.045281E-02	5.238083E-02	-6.188583E-03
62.00	5.086444E-02	5.518040E-02	4.730117E-02	-5.450607E-03
64.00	4.637590E-02	5.049800E-02	4.275233E-02	-4.774818E-03
66.00	4.236643E-02	4.630207E-02	3.868737E-02	-4.127499E-03
68.00	3.878370E-02	4.255063E-02	3.500730E-02	-3.511827E-03
70.00	3.561910E-02	3.921229E-02	3.182246E-02	-2.925624E-03
72.00	3.280383E-02	3.621000E-02	2.901046E-02	-2.375513E-03
74.00	3.030449E-02	3.351222E-02	2.638839E-02	-1.866772E-03
76.00	2.808374E-02	3.107917E-02	2.410380E-02	-1.405440E-03
78.00	2.610853E-02	2.882815E-02	2.205964E-02	-9.949330E-04
80.00	2.431868E-02	2.688706E-02	2.022687E-02	-6.341178E-04
82.00	2.271258E-02	2.510070E-02	1.857734E-02	-3.184500E-04
84.00	2.125650E-02	2.340660E-02	1.708858E-02	-4.083440E-05
86.00	1.993312E-02	2.205507E-02	1.574705E-02	2.072364E-04
88.00	1.873703E-02	2.076665E-02	1.453610E-02	4.344494E-04
90.00	1.765719E-02	1.962229E-02	1.343402E-02	6.477560E-04
92.00	1.668525E-02	1.861870E-02	1.244760E-02	8.518562E-04
94.00	1.581340E-02	1.772105E-02	1.156174E-02	1.046159E-03
96.00	1.503110E-02	1.694111E-02	1.076646E-02	1.233206E-03
98.00	1.432682E-02	1.625960E-02	1.005289E-02	1.411325E-03
100.00	1.368874E-02	1.566608E-02	9.406875E-03	1.579608E-03
102.00	1.318660E-02	1.515341E-02	8.826867E-03	1.738532E-03
104.00	1.257174E-02	1.471152E-02	8.306464E-03	1.888153E-03
106.00	1.207647E-02	1.433361E-02	7.808620E-03	2.033411E-03
108.00	1.161880E-02	1.401441E-02	7.358208E-03	2.173871E-03
110.00	1.119421E-02	1.375163E-02	6.939412E-03	2.314232E-03
112.00	1.080542E-02	1.354535E-02	6.540460E-03	2.458813E-03
114.00	1.045401E-02	1.339702E-02	6.180182E-03	2.612624E-03
116.00	1.014363E-02	1.331323E-02	5.854718E-03	2.770827E-03
118.00	9.877329E-03	1.329688E-02	5.554093E-03	2.984697E-03
120.00	9.655107E-03	1.335486E-02	5.295781E-03	3.169381E-03
122.00	9.487249E-03	1.349748E-02	5.072595E-03	3.394272E-03
124.00	9.363131E-03	1.371868E-02	4.886555E-03	3.637267E-03
126.00	9.280781E-03	1.403523E-02	4.746102E-03	3.893783E-03
128.00	9.231181E-03	1.444585E-02	4.637826E-03	4.156130E-03
130.00	9.201378E-03	1.494750E-02	4.556036E-03	4.414693E-03
132.00	9.175056E-03	1.553854E-02	4.498785E-03	4.657847E-03
134.00	9.136995E-03	1.620892E-02	4.423690E-03	4.868409E-03
136.00	9.066633E-03	1.694490E-02	4.336240E-03	5.032781E-03
138.00	8.948614E-03	1.772956E-02	4.209928E-03	5.131521E-03
140.00	8.771871E-03	1.854404E-02	4.007070E-03	5.149660E-03
142.00	8.528756E-03	1.936790E-02	3.715846E-03	5.072987E-03
144.00	8.223908E-03	2.017981E-02	3.303604E-03	4.883116E-03
146.00	7.868763E-03	2.095697E-02	2.745707E-03	4.593587E-03
148.00	7.484754E-03	2.167737E-02	2.020758E-03	4.179258E-03
150.00	7.109662E-03	2.232015E-02	1.111426E-03	3.649767E-03
152.00	6.793460E-03	2.286690E-02	7.150045E-06	3.015677E-03
154.00	6.598063E-03	2.330667E-02	-1.296152E-03	2.294773E-03
156.00	6.587304E-03	2.363362E-02	-2.780049E-03	1.511052E-03
158.00	6.824066E-03	2.384008E-02	-4.499700E-03	6.897647E-04
160.00	7.372719E-03	2.392250E-02	-6.391474E-03	-1.416662E-04
162.00	8.307832E-03	2.390253E-02	-8.450676E-03	-9.323201E-04
164.00	9.707782E-03	2.385460E-02	-1.067476E-02	-1.606633E-03
166.00	1.162171E-02	2.392890E-02	-1.303951E-02	-2.027081E-03
168.00	1.405769E-02	2.420332E-02	-1.552952E-02	-2.166471E-03
170.00	1.688562E-02	2.481064E-02	-1.814219E-02	-2.034313E-03
172.00	1.984417E-02	2.560402E-02	-2.078025E-02	-1.745963E-03
174.00	2.276789E-02	2.640267E-02	-2.338524E-02	-1.303806E-03
176.00	2.533130E-02	2.730562E-02	-2.574914E-02	-8.279221E-04
178.00	2.732728E-02	2.753276E-02	-2.757982E-02	-3.079100E-04
180.00	2.820406E-02	2.820406E-02	-2.820406E-02	-3.470479E-17

TABLE D6. NORMALIZED PHASE MATRIX FOR TYPE C AEROSOLS, MODEL 300, λ=0.55μ

M=1.55-0.01I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	5.463653E+00	5.463653E+00	5.463653E+00	-4.624827E-18
.10	5.406845E+00	5.406877E+00	5.406861E+00	-4.350146E-04
.20	5.242327E+00	5.2424[illegible]E+00	5.24[illegible]E+00	-1.6[illegible]E-03
.30	4.986739E+00	4.986992E+00	4.986864E+00	-3.488188E-03
.40	4.664628E+00	4.6658[illegible]E+00	4.664[illegible]E+00	-5.5[illegible]E-03
.50	4.304345E+00	4.304392E+00	4.304606E+00	-7.606809E-03
.60	3.933767E+00	3.934435E+00	3.934[illegible]E+00	-9.587[illegible]E-03
.70	3.576673E+00	3.577374E+00	3.576965E+00	-1.088225E-02
.80	3.25810[illegible]E+00	3.25[illegible]E+00	3.25[illegible]E+00	-1.17[illegible]E-02
.90	2.964071E+00	2.964866E+00	2.964409E+00	-1.214979E-02
1.00	2.721611E+00	2.722380E+00	2.72192[illegible]E+00	-1.218134E-02
1.10	2.520687E+00	2.521409E+00	2.520962E+00	-1.197442E-02
1.20	2.356100E+00	2.356701E+00	2.356352E+00	-1.16[illegible]E-02
1.30	2.221458E+00	2.222070E+00	2.221667E+00	-1.130090E-02
1.40	2.11[illegible]E+00	2.111029E+00	2.110634E+00	-1.0907[illegible]E-02
1.50	2.017746E+00	2.018207E+00	2.017966E+00	-1.072555E-02
1.60	1.939156E+00	1.939664E+00	1.939291E+00	-1.053447E-02
1.70	1.871498E+00	1.871994E+00	1.871677E+00	-1.040950E-02
1.80	1.812700E+00	1.812073E+00	1.812507E+00	-1.034663E-02
1.90	1.759970E+00	1.760412E+00	1.760043E+00	-1.034817E-02
2.00	1.71[illegible]E+00	1.712107E+00	1.712729E+00	-1.030[illegible]E-02
3.00	1.391416E+00	1.391927E+00	1.391473E+00	-1.101579E-02
4.00	1.221116E+00	1.221609E+00	1.221098E+00	-1.165[illegible]E-02
5.00	1.110419E+00	1.110906E+00	1.110300E+00	-1.250040E-02
6.00	1.027901E+00	1.028429E+00	1.027749E+00	-1.340076E-02
7.00	9.632102E-01	9.635996E-01	9.628457E-01	-1.436155E-02
8.00	9.096461E-01	9.0[illegible]E-01	9.0[illegible]E-01	-1.5[illegible]E-02
9.00	8.641957E-01	8.643943E-01	8.635009E-01	-1.612259E-02
10.00	8.242594E-01	8.243607E-01	8.234017E-01	-1.709017E-02
11.00	7.881949E-01	7.882199E-01	7.871676E-01	-1.814737E-02
12.00	7.547116E-01	7.546917E-01	7.535269E-01	-1.920525E-02
13.00	7.230524E-01	7.229970E-01	7.217195E-01	-2.046460E-02
14.00	6.92[illegible]E-01	6.92[illegible]E-01	6.912[illegible]E-01	-2.16[illegible]E-02
15.00	6.634620E-01	6.633549E-01	6.618677E-01	-2.282054E-02
16.00	6.350503E-01	6.349740E-01	6.332397E-01	-2.394565E-02
17.00	6.074240E-01	6.072845E-01	6.054412E-01	-2.500187E-02
18.00	5.805429E-01	5.803000E-01	5.78[illegible]E-01	-2.59[illegible]E-02
19.00	5.544061E-01	5.542375E-01	5.520993E-01	-2.685085E-02
20.00	5.2[illegible]E-01	5.2[illegible]E-01	5.2[illegible]E-01	-2.7[illegible]E-02
22.00	4.804771F-01	4.882580E-01	4.776594E-01	-2.891137E-02
24.00	4.340203E-01	4.347803E-01	4.317745E-01	-2.970463E-02
26.00	3.922541E-01	3.922728E-01	3.809403E-01	-3.025050E-02
28.00	3.527667E-01	3.529549E-01	3.491905E-01	-3.031744E-02
30.00	3.163555E-01	3.187574E-01	3.125510E-01	-3.000659E-02
32.00	2.8[illegible]E-01	2.8[illegible]E-01	2.7[illegible]E-01	-2.9[illegible]E-02
34.00	2.526709E-01	2.535343E-01	2.484101E-01	-2.835490E-02
36.00	2.252360E-01	2.263000E-01	2.200120E-01	-2.709061E-02
38.00	2.006579E-01	2.019715E-01	1.960536E-01	-2.561130E-02
40.00	1.787467E-01	1.801935E-01	1.739646E-01	-2.397719E-02
42.00	1.593142E-01	1.608275E-01	1.543572E-01	-2.224259E-02
44.00	1.421658E-01	1.436604E-01	1.370237E-01	-2.045971E-02
46.00	1.270977E-01	1.295060E-01	1.217036E-01	-1.860826E-02
48.00	1.138484E-01	1.161264E-01	1.083031E-01	-1.694610E-02
50.00	1.022299E-01	1.033258E-01	9.661724E-02	-1.528434E-02
52.00	9.203702E-02	9.251760E-02	8.629066E-02	-1.371418E-02
54.00	8.299073E-02	9.373324E-02	7.722466E-02	-1.225086E-02
56.00	7.[illegible]E-02	7.[illegible]E-02	6.[illegible]E-02	-1.0[illegible]E-02
58.00	6.830075E-02	6.844917E-02	6.224225E-02	-9.666804E-03

SCATTERING ANGLE	I1	I2	I3	I4
60.00	6.2185[illegible]E-02	6.21[illegible]E-02	5.6[illegible]E-02	-8.5463[illegible]E-03
62.00	5.677211E-02	5.646657E-02	5.058527E-02	-7.533639E-03
64.00	5.1966[illegible]E-02	5.1[illegible]E-02	4.5[illegible]E-02	-6.6[illegible]E-03
66.00	4.760753E-02	4.700996E-02	4.142025E-02	-5.004910E-03
68.00	4.[illegible]E-02	4.[illegible]E-02	3.7[illegible]E-02	-5.0[illegible]E-03
70.00	4.044251E-02	3.950503E-02	3.416893E-02	-4.414202E-03
72.00	3.73[illegible]E-02	3.6[illegible]E-02	3.1[illegible]E-02	-3.8[illegible]E-03
74.00	3.459981E-02	3.353178E-02	2.834328E-02	-3.291013E-03
76.00	3.2[illegible]E-02	3.1[illegible]E-02	2.5[illegible]E-02	-2.8[illegible]E-03
78.00	2.997507E-02	2.877100E-02	2.364920E-02	-2.372902E-03
80.00	2.7[illegible]E-02	2.6[illegible]E-02	2.1[illegible]E-02	-1.9[illegible]E-03
82.00	2.592269E-02	2.450087E-02	1.903670E-02	-1.599459E-03
84.00	2.42[illegible]E-02	2.3[illegible]E-02	1.8[illegible]E-02	-1.2[illegible]E-03
86.00	2.260273E-02	2.155939E-02	1.671364E-02	-9.297488E-04
88.00	2.12[illegible]E-02	2.0[illegible]E-02	1.5[illegible]E-02	-6.2[illegible]E-04
90.00	1.998495E-02	1.954035E-02	1.413370E-02	-3.260790E-04
92.00	1.8[illegible]E-02	1.8[illegible]E-02	1.3[illegible]E-02	-4.[illegible]E-05
94.00	1.773074E-02	1.762310E-02	1.199205E-02	2.376130E-04
96.00	1.6765[illegible]E-02	1.6[illegible]E-02	1.1[illegible]E-02	5.[illegible]E-04
98.00	1.508415E-02	1.689377E-02	1.021406E-02	7.761764E-04
100.00	1.5[illegible]E-02	1.5[illegible]E-02	9.4[illegible]E-03	1.0[illegible]E-03
102.00	1.430972E-02	1.490217E-02	8.749393E-03	1.295364E-03
104.00	1.37[illegible]E-02	1.4[illegible]E-02	8.1[illegible]E-03	1.5[illegible]E-03
106.00	1.318004E-02	1.401303E-02	7.561614E-03	1.792060E-03
108.00	1.26[illegible]E-02	1.36[illegible]E-02	7.0[illegible]E-03	2.0[illegible]E-03
110.00	1.226602E-02	1.341407E-02	6.610092E-03	2.265302E-03
112.00	1.1[illegible]E-02	1.3[illegible]E-02	6.[illegible]E-03	2.4[illegible]E-03
114.00	1.156089E-02	1.310045E-02	5.880416E-03	2.789155E-03
116.00	1.1[illegible]E-02	1.3[illegible]E-02	5.[illegible]E-03	2.9[illegible]E-03
118.00	1.103605E-02	1.307225E-02	5.324700E-03	3.116500E-03
120.00	1.0[illegible]E-02	1.3[illegible]E-02	5.[illegible]E-03	3.3[illegible]E-03
122.00	1.059577E-02	1.331994E-02	4.867309E-03	3.475596E-03
124.00	1.0[illegible]E-02	1.3[illegible]E-02	4.6[illegible]E-03	3.6[illegible]E-03
126.00	1.016754E-02	1.381700E-02	4.441722E-03	3.769415E-03
128.00	9.[illegible]E-03	1.4[illegible]E-02	4.2[illegible]E-03	3.8[illegible]E-03
130.00	9.603293E-03	1.452592E-02	3.963406E-03	3.974021E-03
132.00	9.[illegible]E-03	1.4[illegible]E-02	3.6[illegible]E-03	4.0[illegible]E-03
134.00	9.102610E-03	1.539097E-02	3.341668E-03	4.064106E-03
136.00	8.7[illegible]E-03	1.5[illegible]E-02	2.9[illegible]E-03	4.0[illegible]E-03
138.00	8.472030E-03	1.634700E-02	2.489471E-03	4.010074E-03
140.00	8.[illegible]E-03	1.6[illegible]E-02	1.9[illegible]E-03	3.9[illegible]E-03
142.00	7.735236E-03	1.734267E-02	1.343209E-03	3.820300E-03
144.00	7.4[illegible]E-03	1.78[illegible]E-02	6.47[illegible]E-04	3.6[illegible]E-03
146.00	7.129155E-03	1.830970E-02	-1.332602E-04	3.452490E-03
148.00	6.911027E-03	1.87[illegible]E-02	-9.9[illegible]E-04	3.2[illegible]E-03
150.00	6.779593E-03	1.910544E-02	-1.952590E-03	2.912726E-03
152.00	6.7[illegible]E-03	1.9[illegible]E-02	-3.0[illegible]E-03	2.5[illegible]E-03
154.00	6.860025E-03	1.950247E-02	-4.112901E-03	2.109097E-03
156.00	7.1[illegible]E-03	2.0[illegible]E-02	-5.3[illegible]E-03	1.7[illegible]E-03
158.00	7.540710E-03	2.025350E-02	-6.609025E-03	1.262859E-03
160.00	8.1[illegible]E-03	2.0[illegible]E-02	-7.9[illegible]E-03	7.[illegible]E-04
162.00	9.029900E-03	2.044135E-02	-9.416545E-03	1.016601E-04
164.00	1.0[illegible]E-02	2.0[illegible]E-02	-1.0[illegible]E-02	-3.[illegible]E-04
166.00	1.169153E-02	2.047807E-02	-1.251369E-02	-6.670362E-04
168.00	1.3[illegible]E-02	2.07[illegible]E-02	-1.4[illegible]E-02	-8.[illegible]E-04
170.00	1.549252E-02	2.117179E-02	-1.601665E-02	-8.808085E-04
172.00	1.754019E-02	2.17[illegible]E-02	-1.79[illegible]E-02	-8.[illegible]E-04
174.00	1.953770E-02	2.235734E-02	-1.985390E-02	-7.560437E-04
176.00	2.139974E-02	2.294551E-02	-2.166101E-02	-5.482666E-04
178.00	2.291312E-02	2.340100E-02	-2.306451E-02	-2.268244E-04
180.00	2.3605[illegible]E-02	2.3605[illegible]E-02	-2.360[illegible]E-02	-2.[illegible]E-17

TABLE D7. NORMALIZED PHASE MATRIX FOR TYPE C AEROSOLS, MODEL 300, λ=0.70μ

N=1.55-0.01i

SCATTERING ANGLE	I1	I2	I3	I4
0.00	4.373676E+00	4.372676E+00	4.373676E+00	[illegible]
.10	4.345332E+00	4.345354E+00	4.345343E+00	-2.733536E-04
.20	[illegible]	[illegible]	[illegible]	[illegible]
.30	4.129400E+00	4.129597E+00	4.129501E+00	-2.206224E-03
.40	[illegible]	[illegible]	[illegible]	[illegible]
.50	3.750189E+00	3.750637E+00	3.750400E+00	-5.496082E-03
.60	[illegible]	[illegible]	[illegible]	[illegible]
.70	3.291390E+00	3.292006E+00	3.291636E+00	-8.731999E-03
.80	[illegible]	[illegible]	[illegible]	[illegible]
.90	2.836030E+00	2.836884E+00	2.836413E+00	-1.105937E-02
1.00	[illegible]	[illegible]	[illegible]	[illegible]
1.10	2.442013E+00	2.442904E+00	2.442300E+00	-1.214969E-02
1.20	[illegible]	[illegible]	[illegible]	[illegible]
1.30	2.132379E+00	2.133212E+00	2.132700E+00	-1.223523E-02
1.40	[illegible]	[illegible]	[illegible]	[illegible]
1.50	1.902586E+00	1.903315E+00	1.902839E+00	-1.179643E-02
1.60	[illegible]	[illegible]	[illegible]	[illegible]
1.70	1.734695E+00	1.735315E+00	1.734875E+00	-1.124757E-02
1.80	[illegible]	[illegible]	[illegible]	[illegible]
1.90	1.609692E+00	1.610221E+00	1.609016E+00	-1.080426E-02
2.00	[illegible]	[illegible]	[illegible]	[illegible]
3.00	1.243510E+00	1.243872E+00	1.243494E+00	-1.074600E-02
4.00	[illegible]	[illegible]	[illegible]	[illegible]
5.00	9.651827E-01	9.651517E-01	9.648227E-01	-1.151800E-02
6.00	[illegible]	[illegible]	[illegible]	[illegible]
7.00	8.291940E-01	8.226066E-01	8.203512E-01	-1.276100E-02
8.00	[illegible]	[illegible]	[illegible]	[illegible]
9.00	7.396453E-01	7.382312E-01	7.381724E-01	-1.303030E-02
10.00	[illegible]	[illegible]	[illegible]	[illegible]
11.00	6.739665E-01	6.700974E-01	6.711342E-01	-1.481629E-02
12.00	[illegible]	[illegible]	[illegible]	[illegible]
13.00	6.204766E-01	6.167978E-01	6.174197E-01	-1.586150E-02
14.00	[illegible]	[illegible]	[illegible]	[illegible]
15.00	5.752189E-01	5.702384E-01	5.713047E-01	-1.706060E-02
16.00	[illegible]	[illegible]	[illegible]	[illegible]
17.00	5.343295E-01	5.279945E-01	5.295424E-01	-1.838123E-02
18.00	[illegible]	[illegible]	[illegible]	[illegible]
19.00	4.962115E-01	4.885210E-01	4.905593E-01	-1.970319E-02
20.00	[illegible]	[illegible]	[illegible]	[illegible]
22.00	4.426908E-01	4.330862E-01	4.357922E-01	-2.151021E-02
24.00	[illegible]	[illegible]	[illegible]	[illegible]
26.00	3.773576E-01	3.655806E-01	3.689419E-01	-2.327442E-02
28.00	[illegible]	[illegible]	[illegible]	[illegible]
30.00	3.180739E-01	3.054780E-01	3.091662E-01	-2.421000E-02
32.00	[illegible]	[illegible]	[illegible]	[illegible]
34.00	2.672734E-01	2.520774E-01	2.565260E-01	-2.433581E-02
36.00	[illegible]	[illegible]	[illegible]	[illegible]
38.00	2.224755E-01	2.076021E-01	2.109429E-01	-2.372090E-02
40.00	[illegible]	[illegible]	[illegible]	[illegible]
42.00	1.840925E-01	1.695234E-01	1.721107E-01	-2.246523E-02
44.00	1.671569E-01	1.529143E-01	1.550932E-01	-2.163443E-02
46.00	1.517915E-01	1.378413E-01	1.395000E-01	-2.069729E-02
48.00	[illegible]	[illegible]	[illegible]	[illegible]
50.00	1.247966E-01	1.119234E-01	1.127229E-01	-1.858960E-02
52.00	[illegible]	[illegible]	[illegible]	[illegible]
54.00	1.026891E-01	9.057288E-02	9.001530E-02	-1.628719E-02
56.00	[illegible]	[illegible]	[illegible]	[illegible]
58.00	8.472770E-02	7.410961E-02	7.313432E-02	-1.391250E-02

SCATTERING ANGLE	I1	I2	I3	I4
60.00	[illegible]	[illegible]	[illegible]	[illegible]
62.00	7.027856E-02	6.022061E-02	5.890319E-02	-1.157414E-02
64.00	[illegible]	[illegible]	[illegible]	[illegible]
66.00	5.074960E-02	5.020107E-02	4.776245E-02	-9.377003E-03
68.00	[illegible]	[illegible]	[illegible]	[illegible]
70.00	4.956070E-02	4.176410E-02	3.085106E-02	-7.398356E-03
72.00	[illegible]	[illegible]	[illegible]	[illegible]
74.00	4.222454E-02	3.505047E-02	3.170031E-02	-5.655640E-03
76.00	[illegible]	[illegible]	[illegible]	[illegible]
78.00	3.635706E-02	2.970200E-02	2.612552E-02	-4.150461E-03
80.00	[illegible]	[illegible]	[illegible]	[illegible]
82.00	3.164797E-02	2.543717E-02	2.161435E-02	-2.071163E-03
84.00	[illegible]	[illegible]	[illegible]	[illegible]
86.00	2.784336E-02	2.263903E-02	1.799227E-02	-1.001221E-03
88.00	[illegible]	[illegible]	[illegible]	[illegible]
90.00	2.474360E-02	1.935711E-02	1.506927E-02	-9.193203E-04
92.00	[illegible]	[illegible]	[illegible]	[illegible]
94.00	2.210726E-02	1.727773E-02	1.269307E-02	-1.913944E-04
96.00	[illegible]	[illegible]	[illegible]	[illegible]
98.00	2.005220E-02	1.570416E-02	1.074560E-02	4.192252E-04
100.00	[illegible]	[illegible]	[illegible]	[illegible]
102.00	1.824391E-02	1.455432E-02	9.132191E-03	9.402001E-04
104.00	[illegible]	[illegible]	[illegible]	[illegible]
106.00	1.660497E-02	1.376430E-02	7.769366E-03	1.395298E-03
108.00	[illegible]	[illegible]	[illegible]	[illegible]
110.00	1.531535E-02	1.320019E-02	6.509627E-03	1.804040E-03
112.00	[illegible]	[illegible]	[illegible]	[illegible]
114.00	1.408694E-02	1.305400E-02	5.529513E-03	2.176300E-03
116.00	[illegible]	[illegible]	[illegible]	[illegible]
118.00	1.296366E-02	1.303544E-02	4.533640E-03	2.516617E-03
120.00	[illegible]	[illegible]	[illegible]	[illegible]
122.00	1.192306E-02	1.317019E-02	3.549239E-03	2.822341E-03
124.00	[illegible]	[illegible]	[illegible]	[illegible]
126.00	1.096745E-02	1.346160E-02	2.337909E-03	3.090345E-03
128.00	[illegible]	[illegible]	[illegible]	[illegible]
130.00	1.009649E-02	1.386066E-02	1.474907E-03	3.314293E-03
132.00	[illegible]	[illegible]	[illegible]	[illegible]
134.00	9.348847E-03	1.437277E-02	3.431572E-04	3.476149E-03
136.00	[illegible]	[illegible]	[illegible]	[illegible]
138.00	8.752304E-03	1.494630E-02	-8.712594E-04	3.551300E-03
140.00	[illegible]	[illegible]	[illegible]	[illegible]
142.00	8.349410E-03	1.558510E-02	-2.170135E-03	3.524904E-03
144.00	[illegible]	[illegible]	[illegible]	[illegible]
146.00	8.184234E-03	1.629672E-02	-3.580582E-03	3.302650E-03
148.00	[illegible]	[illegible]	[illegible]	[illegible]
150.00	8.291506E-03	1.704755E-02	-5.078513E-03	3.098690E-03
152.00	[illegible]	[illegible]	[illegible]	[illegible]
154.00	8.784155E-03	1.776261E-02	-6.607073E-03	2.680636E-03
156.00	[illegible]	[illegible]	[illegible]	[illegible]
158.00	9.477297E-03	1.831206E-02	-8.466606E-03	1.866417E-03
160.00	[illegible]	[illegible]	[illegible]	[illegible]
162.00	1.075502E-02	1.859643E-02	-1.046521E-02	9.305905E-04
164.00	[illegible]	[illegible]	[illegible]	[illegible]
166.00	1.275191E-02	1.887785E-02	-1.268789E-02	1.134575E-04
168.00	1.402810E-02	1.919734E-02	-1.396006E-02	-1.643332E-04
170.00	1.547621E-02	1.965273E-02	-1.539293E-02	-3.779377E-04
172.00	[illegible]	[illegible]	[illegible]	[illegible]
174.00	1.854305E-02	2.022965E-02	-1.865039E-02	-5.497598E-04
176.00	2.012795E-02	2.141657E-02	-2.026549E-02	-4.420552E-04
178.00	2.144160E-02	2.186554E-02	-2.155850E-02	-1.975937E-04
180.00	2.264412E-02	2.264412E-02	-2.264412E-02	-1.621126E-17

TABLE 30. NORMALIZED PHASE MATRIX FOR TYPE C AEROSOLS, MODEL 300, λ=1.40μ

N=1.95-0.01I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	[illegible]	[illegible]	[illegible]	[illegible]
.10	3.335951E+00	3.335962E+00	3.335957E+00	-9.220100E-05
.20	[illegible]	[illegible]	[illegible]	[illegible]
.30	3.300372E+00	3.300471E+00	3.300422E+00	-8.179176E-04
.40	[illegible]	[illegible]	[illegible]	[illegible]
.50	3.231794E+00	3.232061E+00	3.231926E+00	-2.207463E-03
.60	[illegible]	[illegible]	[illegible]	[illegible]
.70	3.133222E+00	3.133721E+00	3.133467E+00	-4.144572E-03
.80	[illegible]	[illegible]	[illegible]	[illegible]
.90	3.009395E+00	3.010169E+00	3.009771E+00	-6.672117E-03
1.00	[illegible]	[illegible]	[illegible]	[illegible]
1.10	2.865992E+00	2.867060E+00	2.866503E+00	-9.013317E-03
1.20	[illegible]	[illegible]	[illegible]	[illegible]
1.30	2.709179E+00	2.710536E+00	2.709817E+00	-1.157637E-02
1.40	[illegible]	[illegible]	[illegible]	[illegible]
1.50	2.545140E+00	2.546760E+00	2.545892E+00	-1.400321E-02
1.60	[illegible]	[illegible]	[illegible]	[illegible]
1.70	2.379699E+00	2.381533E+00	2.380516E+00	-1.615479E-02
1.80	[illegible]	[illegible]	[illegible]	[illegible]
1.90	2.217076E+00	2.219079E+00	2.210740E+00	-1.793621E-02
2.00	[illegible]	[illegible]	[illegible]	[illegible]
3.00	1.520546E+00	1.522401E+00	1.521090E+00	-2.000743E-02
4.00	[illegible]	[illegible]	[illegible]	[illegible]
5.00	1.007314E+00	1.007050E+00	1.006963E+00	-1.768965E-02
6.00	[illegible]	[illegible]	[illegible]	[illegible]
7.00	7.991988E-01	7.981772E-01	7.972007E-01	-1.796917E-02
8.00	[illegible]	[illegible]	[illegible]	[illegible]
9.00	6.690152E-01	6.682706E-01	6.674052E-01	-1.789271E-02
10.00	[illegible]	[illegible]	[illegible]	[illegible]
11.00	5.813155E-01	5.796653E-01	5.780999E-01	-1.780401E-02
12.00	[illegible]	[illegible]	[illegible]	[illegible]
13.00	5.157020E-01	5.130011E-01	5.124045E-01	-1.770307E-02
14.00	[illegible]	[illegible]	[illegible]	[illegible]
15.00	4.629674E-01	4.590107E-01	4.586009E-01	-1.762027E-02
16.00	[illegible]	[illegible]	[illegible]	[illegible]
17.00	4.191041E-01	4.137455E-01	4.130576E-01	-1.720005E-02
18.00	[illegible]	[illegible]	[illegible]	[illegible]
19.00	3.823100E-01	3.751571E-01	3.750900E-01	-1.662067E-02
20.00	[illegible]	[illegible]	[illegible]	[illegible]
22.00	3.365291E-01	3.264550E-01	3.284133E-01	-1.553293E-02
24.00	[illegible]	[illegible]	[illegible]	[illegible]
26.00	2.887837E-01	2.743044E-01	2.782964E-01	-1.395434E-02
28.00	[illegible]	[illegible]	[illegible]	[illegible]
30.00	2.511004E-01	2.323859E-01	2.382707E-01	-1.260609E-02
32.00	[illegible]	[illegible]	[illegible]	[illegible]
34.00	2.202371E-01	1.972345E-01	2.049130E-01	-1.150135E-02
36.00	[illegible]	[illegible]	[illegible]	[illegible]
38.00	1.960731E-01	1.671500E-01	1.763560E-01	-1.052206E-02
40.00	[illegible]	[illegible]	[illegible]	[illegible]
42.00	1.716922E-01	1.411094E-01	1.516167E-01	-9.593116E-03
44.00	1.616945E-01	1.295441E-01	1.404675E-01	-9.139190E-03
46.00	1.523967E-01	1.187096E-01	1.300445E-01	-8.602073E-03
48.00	[illegible]	[illegible]	[illegible]	[illegible]
50.00	1.357340E-01	9.938583E-02	1.112214E-01	-7.750786E-03
52.00	[illegible]	[illegible]	[illegible]	[illegible]
54.00	1.213455E-01	8.265309E-02	9.402411E-02	-6.820668E-03
56.00	[illegible]	[illegible]	[illegible]	[illegible]
58.00	1.080946E-01	6.844902E-02	8.052219E-02	-5.916146E-03
60.00	[illegible]	[illegible]	[illegible]	[illegible]
62.00	9.607000E-02	5.640500E-02	6.804117E-02	-5.041559E-03
64.00	[illegible]	[illegible]	[illegible]	[illegible]
66.00	8.603742E-02	4.626645E-02	5.711170E-02	-4.194151E-03
68.00	[illegible]	[illegible]	[illegible]	[illegible]
70.00	8.039974E-02	3.780537E-02	4.755114E-02	-3.375009E-03
72.00	[illegible]	[illegible]	[illegible]	[illegible]
74.00	7.320209E-02	3.001377E-02	3.920651E-02	-2.599799E-03
76.00	[illegible]	[illegible]	[illegible]	[illegible]
78.00	6.690319E-02	2.510700E-02	3.190020E-02	-1.897752E-03
80.00	[illegible]	[illegible]	[illegible]	[illegible]
82.00	6.174156E-02	2.053021E-02	2.551200E-02	-1.292110E-03
84.00	[illegible]	[illegible]	[illegible]	[illegible]
86.00	5.630745E-02	1.694772E-02	1.907247E-02	-7.665057E-04
88.00	[illegible]	[illegible]	[illegible]	[illegible]
90.00	5.194300E-02	1.423934E-02	1.489241E-02	-2.930060E-04
92.00	[illegible]	[illegible]	[illegible]	[illegible]
94.00	4.797997E-02	1.229967E-02	1.050256E-02	1.493487E-04
96.00	[illegible]	[illegible]	[illegible]	[illegible]
98.00	4.446104E-02	1.103761E-02	6.649906E-03	5.756566E-04
100.00	[illegible]	[illegible]	[illegible]	[illegible]
102.00	4.136169E-02	1.036600E-02	3.202156E-03	9.866245E-04
104.00	[illegible]	[illegible]	[illegible]	[illegible]
106.00	3.863723E-02	1.010610E-02	3.449765E-04	1.360624E-03
108.00	[illegible]	[illegible]	[illegible]	[illegible]
110.00	3.623033E-02	1.029493E-02	-2.230670E-03	1.700406E-03
112.00	[illegible]	[illegible]	[illegible]	[illegible]
114.00	3.400540E-02	1.092676E-02	-4.510309E-03	1.974207E-03
116.00	[illegible]	[illegible]	[illegible]	[illegible]
118.00	3.217476E-02	1.175460E-02	-6.549971E-03	2.207930E-03
120.00	[illegible]	[illegible]	[illegible]	[illegible]
122.00	3.049309E-02	1.284704E-02	-8.352450E-03	2.425060E-03
124.00	[illegible]	[illegible]	[illegible]	[illegible]
126.00	2.907767E-02	1.415740E-02	-9.966502E-03	2.631477E-03
128.00	[illegible]	[illegible]	[illegible]	[illegible]
130.00	2.779036E-02	1.562463E-02	-1.140696E-02	2.817517E-03
132.00	[illegible]	[illegible]	[illegible]	[illegible]
134.00	2.677104E-02	1.725470E-02	-1.269640E-02	2.984934E-03
136.00	[illegible]	[illegible]	[illegible]	[illegible]
138.00	2.596404E-02	1.907670E-02	-1.383223E-02	3.153051E-03
140.00	[illegible]	[illegible]	[illegible]	[illegible]
142.00	2.537054E-02	2.112370E-02	-1.480003E-02	3.332022E-03
144.00	[illegible]	[illegible]	[illegible]	[illegible]
146.00	2.490724E-02	[illegible]	-1.583281E-02	3.483007E-03
148.00	[illegible]	[illegible]	[illegible]	[illegible]
150.00	2.471930E-02	2.580457E-02	-1.675600E-02	3.406729E-03
152.00	[illegible]	[illegible]	[illegible]	[illegible]
154.00	2.440742E-02	2.812411E-02	-1.701129E-02	3.130661E-03
156.00	[illegible]	[illegible]	[illegible]	[illegible]
158.00	2.432500E-02	3.003022E-02	-1.522720E-02	2.217942E-03
160.00	[illegible]	[illegible]	[illegible]	[illegible]
162.00	2.459930E-02	3.110126E-02	-2.126046E-02	7.635047E-04
164.00	[illegible]	[illegible]	[illegible]	[illegible]
166.00	2.607090E-02	3.224631E-02	-2.415070E-02	-6.692629E-04
168.00	[illegible]	[illegible]	[illegible]	[illegible]
170.00	2.937027E-02	3.404237E-02	-2.023794E-02	-1.269900E-03
172.00	[illegible]	[illegible]	[illegible]	[illegible]
174.00	3.379000E-02	3.619427E-02	-3.340600E-02	-1.157206E-03
176.00	3.613663E-02	3.784229E-02	-3.592842E-02	-8.202061E-04
178.00	3.804662E-02	3.967066E-02	-3.817935E-02	-3.762570E-04
180.00	[illegible]	[illegible]	[illegible]	-3.733201E-17

TABLE D9. NORMALIZED PHASE MATRIX FOR TYPE C AEROSOLS, MODEL 400, λ=0.45μ

M=1.55-0.01I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.677881E+00	1.677881E+00	1.677881E+00	-1.468959E-15
.10	1.657987E+00	1.657992E+00	1.657989E+00	-9.355965E-05
.20	1.604873E+00	1.604852E+00	1.604842E+00	-3.295572E-04
.30	1.534256E+00	1.534291E+00	1.534273E+00	-6.363679E-04
.40	1.462974E+00	1.463024E+00	1.462997E+00	-8.469348E-04
.50	1.401477E+00	1.401539E+00	1.401506E+00	-1.018162E-03
.60	1.352252E+00	1.352354E+00	1.352315E+00	-1.147995E-03
.70	1.312937E+00	1.313029E+00	1.312974E+00	-1.265283E-03
.80	1.280115E+00	1.280195E+00	1.280149E+00	-1.360238E-03
.90	1.251728E+00	1.251826E+00	1.251771E+00	-1.467776E-03
1.00	1.226959E+00	1.227063E+00	1.227004E+00	-1.583415E-03
1.10	1.205311E+00	1.205422E+00	1.205359E+00	-1.669397E-03
1.20	1.186244E+00	1.186360E+00	1.186292E+00	-1.749696E-03
1.30	1.169256E+00	1.169376E+00	1.169305E+00	-1.925361E-03
1.40	1.154029E+00	1.154142E+00	1.154088E+00	-1.855828E-03
1.50	1.140326E+00	1.140456E+00	1.140374E+00	-1.961844E-03
1.60	1.127976E+00	1.128102E+00	1.128024E+00	-2.025347E-03
1.70	1.116771E+00	1.116699E+00	1.116818E+00	-2.087616E-03
1.80	1.106550E+00	1.106679E+00	1.106597E+00	-2.148928E-03
1.90	1.097199E+00	1.097328E+00	1.097244E+00	-2.219659E-03
2.00	1.088615E+00	1.088744E+00	1.088693E+00	-2.270806E-03
3.00	1.028795E+00	1.028922E+00	1.028874E+00	-2.920659E-03
4.00	9.912661E-01	9.913874E-01	9.912746E-01	-3.906989E-03
5.00	9.619398E-01	9.620522E-01	9.619212E-01	-5.042311E-03
6.00	9.357923E-01	9.358929E-01	9.357373E-01	-6.358969E-03
7.00	9.109215E-01	9.110064E-01	9.108135E-01	-7.916895E-03
8.00	8.864599E-01	8.865282E-01	8.863108E-01	-9.592610E-03
9.00	8.617648E-01	8.620108E-01	8.617355E-01	-1.116197E-02
10.00	8.372378E-01	8.372834E-01	8.369389E-01	-1.280139E-02
11.00	8.121859E-01	8.122334E-01	8.118075E-01	-1.459293E-02
12.00	7.867668E-01	7.868317E-01	7.863064E-01	-1.641759E-02
13.00	7.609833E-01	7.610839E-01	7.604388E-01	-1.825435E-02
14.00	7.348734E-01	7.350321E-01	7.342452E-01	-2.008148E-02
15.00	7.084015E-01	7.087430E-01	7.077912E-01	-2.187934E-02
16.00	6.819475E-01	6.822977E-01	6.811566E-01	-2.362024E-02
17.00	6.554842E-01	6.557826E-01	6.544266E-01	-2.530031E-02
18.00	6.290087E-01	6.292861E-01	6.278883E-01	-2.650913E-02
19.00	6.020846E-01	6.028973E-01	6.010297E-01	-2.841411E-02
20.00	5.759579E-01	5.767053E-01	5.745391E-01	-2.960396E-02
22.00	5.234958E-01	5.252564E-01	5.224182E-01	-3.222800E-02
24.00	4.730482E-01	4.755874E-01	4.719425E-01	-3.408024E-02
26.00	4.248275E-01	4.262569E-01	4.237249E-01	-3.533531E-02
28.00	3.793088E-01	3.837169E-01	3.782310E-01	-3.596161E-02
30.00	3.368657E-01	3.422979E-01	3.358259E-01	-3.559953E-02
32.00	2.977542E-01	3.042699E-01	2.967569E-01	-3.338265E-02
34.00	2.621154E-01	2.695486E-01	2.611569E-01	-3.428409E-02
36.00	2.299864E-01	2.383077E-01	2.290547E-01	-3.273802E-02
38.00	2.013144E-01	2.103955E-01	2.003890E-01	-3.082059E-02
40.00	1.759709E-01	1.856523E-01	1.750249E-01	-2.864456E-02
42.00	1.537680E-01	1.636679E-01	1.527695E-01	-2.627500E-02
44.00	1.344732E-01	1.447934E-01	1.333879E-01	-2.390526E-02
46.00	1.178254E-01	1.281817E-01	1.166190E-01	-2.131311E-02
48.00	1.035487E-01	1.137503E-01	1.021888E-01	-1.886593E-02
50.00	9.136407E-02	1.012417E-01	8.982205E-02	-1.651911E-02
52.00	8.100812E-02	9.040722E-02	7.925233E-02	-1.431543E-02
54.00	7.220039E-02	8.101725E-02	7.022915E-02	-1.228529E-02
56.00	6.472875E-02	7.286537E-02	6.252297E-02	-1.034470E-02
58.00	5.837273E-02	6.576977E-02	5.592028E-02	-8.810659E-03
60.00	5.294499E-02	5.957295E-02	5.026447E-02	-7.372771E-03
62.00	4.829365E-02	5.414000E-02	4.537584E-02	-6.127947E-03
64.00	4.425149E-02	4.935735E-02	4.112948E-02	-5.062739E-03
66.00	4.073469E-02	4.512933E-02	3.741541E-02	-4.160086E-03
68.00	3.763765E-02	4.137905E-02	3.414252E-02	-3.402863E-03
70.00	3.489629E-02	3.803999E-02	3.123655E-02	-2.763706E-03
72.00	3.241967E-02	3.505912E-02	2.863917E-02	-2.242596E-03
74.00	3.019746E-02	3.239249E-02	2.630170E-02	-1.822205E-03
76.00	2.816065E-02	3.001855E-02	2.416675E-02	-1.431897E-03
78.00	2.630713E-02	2.757235E-02	2.226494E-02	-1.116557E-03
80.00	2.459655E-02	2.593172E-02	2.051701E-02	-6.431139E-04
82.00	2.302345E-02	2.426236E-02	1.891958E-02	-6.063394E-04
84.00	2.157337E-02	2.264916E-02	1.744246E-02	-3.793946E-04
86.00	2.023069E-02	2.125475E-02	1.609843E-02	-1.730103E-04
88.00	1.900631E-02	2.000403E-02	1.486749E-02	2.422142E-05
90.00	1.787657E-02	1.884165E-02	1.374137E-02	2.164588E-04
92.00	1.684291E-02	1.768376E-02	1.271317E-02	4.069327E-04
94.00	1.590107E-02	1.699320E-02	1.177708E-02	5.976134E-04
96.00	1.504977E-02	1.620458E-02	1.092822E-02	7.903609E-04
98.00	1.428442E-02	1.551168E-02	1.016246E-02	9.881421E-04
100.00	1.362292E-02	1.490958E-02	9.476319E-03	1.185639E-03
102.00	1.300244E-02	1.429517E-02	8.866695E-03	1.359474E-03
104.00	1.247987E-02	1.396646E-02	8.336944E-03	1.599109E-03
106.00	1.203171E-02	1.362239E-02	7.866155E-03	1.811395E-03
108.00	1.165368E-02	1.336247E-02	7.469659E-03	2.033922E-03
110.00	1.134047E-02	1.318642E-02	7.138659E-03	2.254937E-03
112.00	1.108535E-02	1.309383E-02	6.860533E-03	2.492624E-03
114.00	1.087991E-02	1.308388E-02	6.653987E-03	2.712505E-03
116.00	1.071390E-02	1.315493E-02	6.488074E-03	2.941871E-03
118.00	1.057535E-02	1.330407E-02	6.362151E-03	3.167206E-03
120.00	1.045073E-02	1.352697E-02	6.265586E-03	3.354070E-03
122.00	1.032540E-02	1.381709E-02	6.185855E-03	3.597149E-03
124.00	1.018422E-02	1.416674E-02	6.108653E-03	3.770313E-03
126.00	1.001234E-02	1.456621E-02	6.018111E-03	3.926316E-03
128.00	9.796249E-03	1.500444E-02	5.897207E-03	4.049690E-03
130.00	9.524975E-03	1.546917E-02	5.728373E-03	4.132154E-03
132.00	9.191332E-03	1.594723E-02	5.494228E-03	4.168032E-03
134.00	8.793011E-03	1.642513E-02	5.178393E-03	4.152330E-03
136.00	8.333522E-03	1.688459E-02	4.766354E-03	4.099477E-03
138.00	7.823215E-03	1.732809E-02	4.246256E-03	3.957330E-03
140.00	7.279937E-03	1.772946E-02	3.609551E-03	3.764504E-03
142.00	6.724343E-03	1.808443E-02	2.851525E-03	3.523388E-03
144.00	6.180794E-03	1.838601E-02	1.971680E-03	3.231790E-03
146.00	5.706112E-03	1.862960E-02	9.738950E-04	2.857096E-03
148.00	5.312752E-03	1.881303E-02	-1.334624E-04	2.527394E-03
150.00	5.045562E-03	1.893621E-02	-1.338902E-03	2.144305E-03
152.00	4.939222E-03	1.900463E-02	-2.626423E-03	1.726333E-03
154.00	5.023563E-03	1.900088E-02	-3.978340E-03	1.314283E-03
156.00	5.321178E-03	1.896419E-02	-5.375325E-03	9.078508E-04
158.00	5.845592E-03	1.887667E-02	-6.798094E-03	5.164433E-04
160.00	6.601389E-03	1.873514E-02	-8.227846E-03	1.594943E-04
162.00	7.584836E-03	1.857150E-02	-9.647323E-03	-1.757745E-04
164.00	8.784958E-03	1.846715E-02	-1.104279E-02	-4.412374E-04
166.00	1.019014E-02	1.828162E-02	-1.240660E-02	-6.214877E-04
168.00	1.172898E-02	1.823027E-02	-1.373361E-02	-7.021675E-04
170.00	1.336700E-02	1.826973E-02	-1.501147E-02	-6.850277E-04
172.00	1.499200E-02	1.839454E-02	-1.621265E-02	-5.880246E-04
174.00	1.650737E-02	1.857967E-02	-1.729327E-02	-4.315422E-04
176.00	1.778184E-02	1.876464E-02	-1.817804E-02	-2.461842E-04
178.00	1.866810E-02	1.893994E-02	-1.878727E-02	-8.103811E-05
180.00	1.900647E-02	1.900647E-02	-1.900647E-02	-4.377954E-18

TABLE D10. NORMALIZED PHASE MATRIX FOR TYPE C AEROSOLS, MODEL 400, λ=0.55μ

M=1.55-0.03I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.345276E+00	1.345276E+00	1.345276E+00	-1.001026E-15
.10	1.334161E+00	1.334165E+00	1.334163E+00	-6.366619E-05
.20	1.303322E+00	1.303336E+00	1.303329E+00	-2.334040E-04
.30	1.259250E+00	1.259300E+00	1.259253E+00	-4.575709E-04
.40	1.210093E+00	1.210132E+00	1.210112E+00	-6.756742E-04
.50	1.162671E+00	1.162720E+00	1.162695E+00	-6.638821E-04
.60	1.121091E+00	1.121137E+00	1.121107E+00	-1.003594E-03
.70	1.086300E+00	1.086440E+00	1.086412E+00	-1.112607E-03
.80	1.057644E+00	1.057707E+00	1.057671E+00	-1.209029E-03
.90	1.033250E+00	1.033325E+00	1.033287E+00	-1.302066E-03
1.00	1.011926E+00	1.011993E+00	1.011953E+00	-1.354365E-03
1.10	9.929155E-01	9.929611E-01	9.929400E-01	-1.479710E-03
1.20	9.759956E-01	9.759510E-01	9.759106E-01	-1.556600E-03
1.30	9.606930E-01	9.607136E-01	9.606736E-01	-1.626411E-03
1.40	9.469521E-01	9.476065E-01	9.469601E-01	-1.691361E-03
1.50	9.345402E-01	9.345000E-01	9.345510E-01	-1.752936E-03
1.60	9.232170E-01	9.232570E-01	9.232231E-01	-1.811692E-03
1.70	9.128510E-01	9.128810E-01	9.128511E-01	-1.865474E-03
1.80	9.033490E-01	9.033702E-01	9.033434E-01	-1.916553E-03
1.90	8.946292E-01	8.946360E-01	8.946117E-01	-1.965035E-03
2.00	8.865049E-01	8.865001E-01	8.865627E-01	-2.012972E-03
3.00	8.307464E-01	8.305670E-01	8.306236E-01	-2.682437E-03
4.00	7.976123E-01	7.971057E-01	7.973572E-01	-3.357114E-03
5.00	7.734176E-01	7.726759E-01	7.729786E-01	-3.754170E-03
6.00	7.533792E-01	7.522563E-01	7.527249E-01	-4.576130E-03
7.00	7.352653E-01	7.337085E-01	7.343665E-01	-5.489495E-03
8.00	7.201136E-01	7.160604E-01	7.169300E-01	-6.407517E-03
9.00	7.014293E-01	6.988262E-01	6.999253E-01	-7.552205E-03
10.00	6.849282E-01	6.817200E-01	6.830810E-01	-8.672013E-03
11.00	6.694470E-01	6.646695E-01	6.662244E-01	-9.934730E-03
12.00	6.519803E-01	6.473982E-01	6.492659E-01	-1.103002E-02
13.00	6.352637E-01	6.300559E-01	6.322247E-01	-1.224307E-02
14.00	6.184073E-01	6.125641E-01	6.150236E-01	-1.348626E-02
15.00	6.015695E-01	5.949213E-01	5.976663E-01	-1.473663E-02
16.00	5.845196E-01	5.771439E-01	5.801673E-01	-1.597343E-02
17.00	5.673476E-01	5.592489E-01	5.625427E-01	-1.720506E-02
18.00	5.500799E-01	5.412796E-01	5.448400E-01	-1.841932E-02
19.00	5.327557E-01	5.232721E-01	5.270746E-01	-1.960600E-02
20.00	5.154040E-01	5.052679E-01	5.092992E-01	-2.075871E-02
22.00	4.807621E-01	4.694360E-01	4.738350E-01	-2.293490E-02
24.00	4.464345E-01	4.341100E-01	4.387665E-01	-2.469612E-02
26.00	4.127049E-01	3.996334E-01	4.043784E-01	-2.659630E-02
28.00	3.798417E-01	3.662723E-01	3.709565E-01	-2.798895E-02
30.00	3.485893E-01	3.342903E-01	3.387537E-01	-2.907659E-02
32.00	3.170629E-01	3.030995E-01	3.079066E-01	-2.981322E-02
34.00	2.907434E-01	2.752663E-01	2.788416E-01	-3.020334E-02
36.00	2.614730E-01	2.485098E-01	2.514507E-01	-3.025220E-02
38.00	2.359576E-01	2.237022E-01	2.259113E-01	-2.957477E-02
40.00	2.122523E-01	2.007105E-01	2.022769E-01	-2.939410E-02
42.00	1.903942E-01	1.800071E-01	1.805628E-01	-2.853956E-02
44.00	1.703750E-01	1.610625E-01	1.607508E-01	-2.744537E-02
46.00	1.521606E-01	1.439640E-01	1.427097E-01	-2.614904E-02
48.00	1.350924E-01	1.286155E-01	1.266000E-01	-2.468964E-02
50.00	1.278315E-01	1.149750E-01	1.121150E-01	-2.310647E-02
52.00	1.076642E-01	1.027099E-01	9.920211E-02	-2.143797E-02
54.00	9.590573E-02	9.190192E-02	8.775415E-02	-1.971999E-02
56.00	8.550426E-02	8.235096E-02	7.764900E-02	-1.798581E-02
58.00	7.634449E-02	7.392954E-02	6.876646E-02	-1.626471E-02

SCATTERING ANGLE	I1	I2	I3	I4
60.00	6.831655E-02	6.651464E-02	6.098242E-02	-1.458222E-02
62.00	6.174060E-02	5.999642E-02	5.410026E-02	-1.259380E-02
64.00	5.553699E-02	5.424982E-02	4.824022E-02	-1.141521E-02
66.00	4.904600E-02	4.919546E-02	4.360171E-02	-9.961576E-03
68.00	4.473524E-02	4.474005E-02	3.858435E-02	-8.660213E-03
70.00	4.121449E-02	4.060620E-02	3.466061E-02	-7.360595E-03
72.00	3.773335E-02	3.732640E-02	3.125666E-02	-6.220069E-03
74.00	3.470987E-02	3.424201E-02	2.827727E-02	-5.108373E-03
76.00	3.217736E-02	3.150265E-02	2.567153E-02	-4.263164E-03
78.00	2.970195E-02	2.906504E-02	2.330623E-02	-3.431493E-03
80.00	2.777413E-02	2.683584E-02	2.137620E-02	-2.656139E-03
82.00	2.601174E-02	2.496276E-02	1.961259E-02	-2.046793E-03
84.00	2.445930E-02	2.324156E-02	1.803407E-02	-1.479423E-03
86.00	2.306552E-02	2.171120E-02	1.664211E-02	-9.736530E-04
88.00	2.186565E-02	2.035429E-02	1.540425E-02	-5.721041E-04
90.00	2.077776E-02	1.915567E-02	1.430134E-02	-1.456509E-04
92.00	1.946363E-02	1.815207E-02	1.331723E-02	1.965509E-04
94.00	1.892760E-02	1.718473E-02	1.243757E-02	5.008515E-04
96.00	1.812661E-02	1.639172E-02	1.165155E-02	7.719645E-04
98.00	1.741796E-02	1.571474E-02	1.094718E-02	1.017854E-03
100.00	1.676119E-02	1.514529E-02	1.031504E-02	1.242599E-03
102.00	1.616636E-02	1.467537E-02	9.745810E-03	1.452239E-03
104.00	1.559394E-02	1.429729E-02	9.236469E-03	1.643911E-03
106.00	1.506454E-02	1.400357E-02	8.766039E-03	1.826219E-03
108.00	1.455902E-02	1.378600E-02	8.325452E-03	1.998938E-03
110.00	1.417156E-02	1.363957E-02	7.917763E-03	2.163534E-03
112.00	1.359311E-02	1.355440E-02	7.527407E-03	2.320567E-03
114.00	1.311537E-02	1.352273E-02	7.145739E-03	2.478273E-03
116.00	1.263495E-02	1.354128E-02	6.763513E-03	2.612332E-03
118.00	1.214659E-02	1.359625E-02	6.372131E-03	2.745629E-03
120.00	1.164669E-02	1.364499E-02	5.963321E-03	2.869677E-03
122.00	1.113404E-02	1.379953E-02	5.529411E-03	2.992447E-03
124.00	1.060056E-02	1.393394E-02	5.063586E-03	3.082491E-03
126.00	1.007305E-02	1.408073E-02	4.560042E-03	3.160[illegible]E-03
128.00	9.533211E-03	1.423591E-02	4.014261E-03	3.237160E-03
130.00	8.993594E-03	1.439404E-02	3.422786E-03	3.267649E-03
132.00	8.463439E-03	1.455081E-02	2.783930E-03	3.310365E-03
134.00	7.953029E-03	1.470263E-02	2.097240E-03	3.320924E-03
136.00	7.474091E-03	1.484726E-02	1.363857E-03	3.312039E-03
138.00	7.039429E-03	1.498123E-02	5.863014E-04	3.272409E-03
140.00	6.662415E-03	1.510512E-02	-2.312605E-04	3.207234E-03
142.00	6.356378E-03	1.521003E-02	-1.084465E-03	3.110269E-03
144.00	6.133922E-03	1.531993E-02	-1.965783E-03	2.991130E-03
146.00	6.006241E-03	1.541086E-02	-2.869855E-03	2.855930E-03
148.00	5.982392E-03	1.549052E-02	-3.789276E-03	2.686514E-03
150.00	6.065594E-03	1.555791E-02	-4.716043E-03	2.490673E-03
152.00	6.267219E-03	1.561115E-02	-5.645871E-03	2.267332E-03
154.00	6.579594E-03	1.564715E-02	-6.570362E-03	2.017737E-03
156.00	7.001109E-03	1.566181E-02	-7.485504E-03	1.740420E-03
158.00	7.527365E-03	1.565105E-02	-8.387730E-03	1.439204E-03
160.00	8.153244E-03	1.561322E-02	-9.274945E-03	1.117043E-03
162.00	8.875750E-03	1.555362E-02	-1.014675E-02	7.857970E-04
164.00	9.694223E-03	1.549142E-02	-1.099950E-02	4.794346E-04
166.00	1.060454E-02	1.545750E-02	-1.184228E-02	2.136754E-04
168.00	1.150996E-02	1.547740E-02	-1.267030E-02	1.059432E-05
170.00	1.262104E-02	1.556212E-02	-1.350529E-02	-1.279512E-04
172.00	1.364431E-02	1.570703E-02	-1.430530E-02	-1.912011E-04
174.00	1.462745E-02	1.589303E-02	-1.504552E-02	-1.770322E-04
176.00	1.545339E-02	1.608223E-02	-1.567551E-02	-1.240759E-04
178.00	1.605069E-02	1.622595E-02	-1.612226E-02	-4.336150E-05
180.00	1.628578E-02	1.628578E-02	-1.628578E-02	-6.628434E-18

TABLE D11. NORMALIZED PHASE MATRIX FOR TYPE C AEROSOLS, MODEL 400, λ=0.70μ

M=1.55-0.01I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.100410E+00	1.100410E+00	1.100410E+00	-1.348705E-15
.10	1.094183E+00	1.094186E+00	1.094125E+00	-4.492294E-05
.20	1.076368E+00	1.076399E+00	1.076353E+00	-1.704333E-04
.30	1.049617E+00	1.049479E+00	1.049488E+00	-3.511275E-04
.40	1.016770E+00	1.016803E+00	1.016786E+00	-5.545330E-04
.50	9.816784E-01	9.819232E-01	9.818957E-01	-7.508493E-04
.60	9.477974E-01	9.478506E-01	9.478220E-01	-9.207175E-04
.70	9.165507E-01	9.166093E-01	9.165770E-01	-1.053034E-03
.80	8.890631E-01	8.891243E-01	8.890897E-01	-1.167449E-03
.90	8.653578E-01	8.654125E-01	8.653784E-01	-1.259151E-03
1.00	8.448793E-01	8.449398E-01	8.449025E-01	-1.342806E-03
1.10	8.269348E-01	8.269921E-01	8.269559E-01	-1.424132E-03
1.20	8.108860E-01	8.109407E-01	8.109051E-01	-1.504141E-03
1.30	7.963075E-01	7.963572E-01	7.963229E-01	-1.581150E-03
1.40	7.829597E-01	7.830028E-01	7.829705E-01	-1.652903E-03
1.50	7.707170E-01	7.707520E-01	7.707224E-01	-1.718403E-03
1.60	7.594892E-01	7.595142E-01	7.594882E-01	-1.778201E-03
1.70	7.491778E-01	7.491913E-01	7.491696E-01	-1.833676E-03
1.80	7.396715E-01	7.396722E-01	7.396554E-01	-1.886054E-03
1.90	7.308632E-01	7.308494E-01	7.308384E-01	-1.935592E-03
2.00	7.226669E-01	7.226371E-01	7.226326E-01	-1.982974E-03
3.00	6.645482E-01	6.642806E-01	6.643833E-01	-2.347751E-03
4.00	6.307356E-01	6.301387E-01	6.303856E-01	-2.683441E-03
5.00	6.075698E-01	6.065442E-01	6.069829E-01	-3.076021E-03
6.00	5.896559E-01	5.881128E-01	5.887923E-01	-3.526703E-03
7.00	5.746613E-01	5.725150E-01	5.734706E-01	-4.033806E-03
8.00	5.613283E-01	5.584967E-01	5.597652E-01	-4.553834E-03
9.00	5.489561E-01	5.453587E-01	5.469755E-01	-5.154421E-03
10.00	5.372001E-01	5.327594E-01	5.347587E-01	-5.824128E-03
11.00	5.258433E-01	5.204668E-01	5.229007E-01	-6.478148E-03
12.00	5.147452E-01	5.084057E-01	5.112638E-01	-7.151363E-03
13.00	5.038127E-01	4.964288E-01	4.997582E-01	-7.839145E-03
14.00	4.929880E-01	4.845047E-01	4.883258E-01	-8.536350E-03
15.00	4.822377E-01	4.726066E-01	4.769451E-01	-9.239604E-03
16.00	4.715376E-01	4.607176E-01	4.655981E-01	-9.946881E-03
17.00	4.608731E-01	4.488281E-01	4.542572E-01	-1.065617E-02
18.00	4.502235E-01	4.369345E-01	4.429247E-01	-1.136529E-02
19.00	4.395916E-01	4.250387E-01	4.315980E-01	-1.207168E-02
20.00	4.289732E-01	4.131476E-01	4.202733E-01	-1.277242E-02
22.00	4.077909E-01	3.894259E-01	3.976742E-01	-1.414521E-02
24.00	3.867294E-01	3.658829E-01	3.752012E-01	-1.546200E-02
26.00	3.658607E-01	3.426467E-01	3.529665E-01	-1.670458E-02
28.00	3.452613E-01	3.198439E-01	3.310547E-01	-1.785679E-02
30.00	3.250051E-01	2.975950E-01	3.095629E-01	-1.890297E-02
32.00	3.051827E-01	2.760136E-01	2.886060E-01	-1.982898E-02
34.00	2.858575E-01	2.552021E-01	2.682564E-01	-2.062324E-02
36.00	2.671035E-01	2.352499E-01	2.486023E-01	-2.127644E-02
38.00	2.489846E-01	2.162310E-01	2.297158E-01	-2.178183E-02
40.00	2.315573E-01	1.982645E-01	2.116580E-01	-2.213551E-02
42.00	2.148905E-01	1.812134E-01	1.944781E-01	-2.233663E-02
44.00	1.989577E-01	1.652850E-01	1.782129E-01	-2.238715E-02
46.00	1.838512E-01	1.504315E-01	1.628864E-01	-2.229133E-02
48.00	1.695691E-01	1.366515E-01	1.485117E-01	-2.205548E-02
50.00	1.561221E-01	1.239310E-01	1.350907E-01	-2.168771E-02
52.00	1.435127E-01	1.122450E-01	1.226158E-01	-2.119787E-02
54.00	1.317357E-01	1.015588E-01	1.110782E-01	-2.059706E-02
56.00	1.207786E-01	9.163089E-02	1.004252E-01	-1.989739E-02
58.00	1.106225E-01	8.301141E-02	9.066189E-02	-1.911168E-02
60.00	1.012431E-01	7.504679E-02	8.173066E-02	-1.825033E-02
62.00	9.261117E-02	6.783302E-02	7.359541E-02	-1.733452E-02
64.00	8.459371E-02	6.140113E-02	6.521065E-02	-1.636939E-02
66.00	7.745479E-02	5.572274E-02	5.952958E-02	-1.536302E-02
68.00	7.095620E-02	5.061609E-02	5.350784E-02	-1.434705E-02
70.00	6.485827E-02	4.606692E-02	4.808464E-02	-1.331703E-02
72.00	5.942036E-02	4.203912E-02	4.322350E-02	-1.227778E-02
74.00	5.450191E-02	3.847521E-02	3.887279E-02	-1.124871E-02
76.00	5.006210E-02	3.532665E-02	3.499626E-02	-1.023422E-02
78.00	4.606163E-02	3.254833E-02	3.151548E-02	-9.241622E-03
80.00	4.246194E-02	3.009877E-02	2.843019E-02	-8.274500E-03
82.00	3.922558E-02	2.793995E-02	2.567843E-02	-7.346193E-03
84.00	3.631845E-02	2.603766E-02	2.322677E-02	-6.440875E-03
86.00	3.370575E-02	2.436112E-02	2.104039E-02	-5.579638E-03
88.00	3.135657E-02	2.289276E-02	1.908709E-02	-4.755340E-03
90.00	2.924152E-02	2.157824E-02	1.733724E-02	-3.978241E-03
92.00	2.733357E-02	2.042613E-02	1.576380E-02	-3.229734E-03
94.00	2.560802E-02	1.940743E-02	1.434244E-02	-2.542379E-03
96.00	2.404254E-02	1.850567E-02	1.305092E-02	-1.997031E-03
98.00	2.261715E-02	1.770652E-02	1.186959E-02	-1.271400E-03
100.00	2.131414E-02	1.699768E-02	1.078077E-02	-6.951937E-04
102.00	2.011793E-02	1.636870E-02	9.769081E-03	-1.573594E-04
104.00	1.901503E-02	1.581067E-02	8.820803E-03	3.441377E-04
106.00	1.799401E-02	1.531605E-02	7.924322E-03	8.095117E-04
108.00	1.704535E-02	1.487842E-02	7.069193E-03	1.241 12E-03
110.00	1.616139E-02	1.449239E-02	6.246803E-03	1.638851E-03
112.00	1.533609E-02	1.415341E-02	5.449835E-03	2.004153E-03
114.00	1.456491E-02	1.385764E-02	4.672183E-03	2.327695E-03
116.00	1.384461E-02	1.360182E-02	3.908870E-03	2.639701E-03
118.00	1.317307E-02	1.338326E-02	3.155890E-03	[illegible]
120.00	1.254920E-02	1.319978E-02	2.410169E-03	3.150353E-03
122.00	1.197284E-02	1.304979E-02	1.669463E-03	3.358955E-03
124.00	1.144462E-02	1.293181E-02	9.373030E-04	3.530331E-03
126.00	1.096573E-02	1.284514E-02	1.979460E-04	3.662567E-03
128.00	1.053781E-02	1.278897E-02	-5.337075E-04	3.757431E-03
130.00	1.016273E-02	1.276261E-02	-1.262247E-03	3.880977E-03
132.00	9.842491E-03	1.276544E-02	-1.986882E-03	3.932835E-03
134.00	9.578590E-03	1.279662E-02	-2.706442E-03	3.953303E-03
136.00	9.372783E-03	1.285546E-02	-3.419667E-03	3.942369E-03
138.00	9.226016E-03	1.294117E-02	-4.125105E-03	3.900234E-03
140.00	9.139729E-03	1.305270E-02	-4.821307E-03	3.827137E-03
142.00	9.112604E-03	1.318873E-02	-5.506903E-03	3.723598E-03
144.00	9.144441E-03	1.334718E-02	-6.184728E-03	3.589712E-03
146.00	9.226132E-03	1.352602E-02	-6.841933E-03	3.425668E-03
148.00	9.364711E-03	1.371913E-02	-7.490109E-03	3.231410E-03
150.00	9.552621E-03	1.392119E-02	-8.125428E-03	3.006719E-03
152.00	9.785926E-03	1.412755E-02	-8.748736E-03	2.751972E-03
154.00	1.006055E-02	1.432946E-02	-9.361591E-03	2.465554E-03
156.00	1.037416E-02	1.451847E-02	-9.965958E-03	2.150774E-03
158.00	1.072614E-02	1.468749E-02	-1.056444E-02	1.811183E-03
160.00	1.111869E-02	1.483214E-02	-1.115967E-02	1.454077E-03
162.00	1.155690E-02	1.495799E-02	-1.175484E-02	1.094167E-03
164.00	1.204910E-02	1.506516E-02	-1.235024E-02	7.500564E-04
166.00	1.260401E-02	1.516921E-02	-1.295451E-02	4.476392E-04
168.00	1.322333E-02	1.534675E-02	-1.357311E-02	2.060614E-04
170.00	1.389465E-02	1.554639E-02	-1.420408E-02	3.412921E-05
172.00	1.459016E-02	1.578212E-02	-1.483257E-02	-6.791447E-05
174.00	1.526620E-02	1.603259E-02	-1.543213E-02	-1.061520E-04
176.00	1.586131E-02	1.626440E-02	-1.596023E-02	-9.254384E-05
178.00	1.630493E-02	1.642462E-02	-1.634783E-02	-4.131808E-05
180.00	1.649169E-02	1.649169E-02	-1.649169E-02	-6.409789E-18

TABLE D12. NORMALIZED PHASE MATRIX FOR TYPE C AEROSOLS, MODEL 400, λ=1.60μ

M=1.55-0.01I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.109066E+00	1.109066E+00	1.109066E+00	-7.313877E-16
.10	1.107309E+00	1.107311E+00	1.107310E+00	-2.763671E-05
.20	1.102088E+00	1.102090E+00	1.102093E+00	-1.053691E-04
.30	1.093548E+00	1.093572E+00	1.093560E+00	-2.417462E-04
.40	1.081926E+00	1.081967E+00	1.081947E+00	-4.152037E-04
.50	1.067534E+00	1.067595E+00	1.067564E+00	-6.348407E-04
.60	1.050746E+00	1.050831E+00	1.050787E+00	-8.811008E-04
.70	1.031330E+00	1.032191E+00	1.032034E+00	-1.146113E-03
.80	1.011680E+00	1.011815E+00	1.011745E+00	-1.423859E-03
.90	9.902932E-01	9.904529E-01	9.903652E-01	-1.704754E-03
1.00	9.682537E-01	9.684372E-01	9.683461E-01	-1.981265E-03
1.10	9.459662E-01	9.461714E-01	9.460615E-01	-2.246972E-03
1.20	9.237914E-01	9.240160E-01	9.238942E-01	-2.497112E-03
1.30	9.020369E-01	9.022780E-01	9.021434E-01	-2.723532E-03
1.40	8.809507E-01	8.812653E-01	8.810631E-01	-2.939692E-03
1.50	8.607187E-01	8.609837E-01	8.608334E-01	-3.130522E-03
1.60	8.414666E-01	8.417392E-01	8.415821E-01	-3.302178E-03
1.70	8.232640E-01	8.235415E-01	8.233780E-01	-3.456743E-03
1.80	8.061314E-01	8.064114E-01	8.062442E-01	-3.556885E-03
1.90	7.900407E-01	7.903292E-01	7.901566E-01	-3.725527E-03
2.00	7.749650E-01	7.752442E-01	7.750710E-01	-3.845546E-03
3.00	6.619595E-01	6.621646E-01	6.619924E-01	-4.886129E-03
4.00	5.863964E-01	5.864043E-01	5.862836E-01	-5.611632E-03
5.00	5.321926E-01	5.318638E-01	5.318661E-01	-6.062707E-03
6.00	4.914663E-01	4.907417E-01	4.908737E-01	-6.377356E-03
7.00	4.597846E-01	4.585547E-01	4.588770E-01	-6.576847E-03
8.00	4.343430E-01	4.325312E-01	4.330000E-01	-6.733039E-03
9.00	4.132599E-01	4.107963E-01	4.116044E-01	-6.871483E-03
10.00	3.952834E-01	3.921614E-01	3.932000E-01	-7.003301E-03
11.00	3.795960E-01	3.756304E-01	3.776502E-01	-7.129344E-03
12.00	3.656495E-01	3.608351E-01	3.626075E-01	-7.246349E-03
13.00	3.530674E-01	3.473390E-01	3.494965E-01	-7.353063E-03
14.00	3.415849E-01	3.348005E-01	3.374542E-01	-7.449862E-03
15.00	3.309988E-01	3.232557E-01	3.262791E-01	-7.538510E-03
16.00	3.211666E-01	3.123050E-01	3.158102E-01	-7.620925E-03
17.00	3.119013E-01	3.019037E-01	3.059215E-01	-7.696596E-03
18.00	3.031660E-01	2.919503E-01	2.965176E-01	-7.763798E-03
19.00	2.948762E-01	2.824045E-01	2.875319E-01	-7.818843E-03
20.00	2.869026E-01	2.731905E-01	2.789179E-01	-7.860398E-03
22.00	2.722451E-01	2.557046E-01	2.626672E-01	-7.904476E-03
24.00	2.587153E-01	2.392703E-01	2.475324E-01	-7.901402E-03
26.00	2.462201E-01	2.237531E-01	2.333474E-01	-7.853548E-03
28.00	2.346327E-01	2.090540E-01	2.199946E-01	-7.764170E-03
30.00	2.238529E-01	1.951031E-01	2.073844E-01	-7.639411E-03
32.00	2.138843E-01	1.818476E-01	1.954515E-01	-7.469537E-03
34.00	2.044220E-01	1.692490E-01	1.841431E-01	-7.271445E-03
36.00	1.956517E-01	1.572767E-01	1.734117E-01	-7.046451E-03
38.00	1.874405E-01	1.459001E-01	1.632153E-01	-6.799064E-03
40.00	1.797441E-01	1.350959E-01	1.535163E-01	-6.532950E-03
42.00	1.725230E-01	1.248431E-01	1.442817E-01	-6.250806E-03
44.00	1.657432E-01	1.151239E-01	1.354835E-01	-5.954459E-03
46.00	1.593730E-01	1.059227E-01	1.270971E-01	-5.648105E-03
48.00	1.533842E-01	9.722405E-02	1.190382E-01	-5.333740E-03
50.00	1.477457E-01	8.901320E-02	1.114643E-01	-5.014194E-03
52.00	1.424325E-01	8.127089E-02	1.041751E-01	-4.691062E-03
54.00	1.374205E-01	7.400172E-02	9.721122E-02	-4.369237E-03
56.00	1.326872E-01	6.717497E-02	9.055474E-02	-4.048347E-03
58.00	1.282122E-01	6.078421E-02	8.418915E-02	-3.731263E-03

SCATTERING ANGLE	I1	I2	I3	I4
60.00	1.239758E-01	5.481732E-02	7.809853E-02	-3.420911E-03
62.00	1.199597E-01	4.926112E-02	7.226792E-02	-3.115493E-03
64.00	1.161473E-01	4.410453E-02	6.668350E-02	-2.819760E-03
66.00	1.125239E-01	3.933548E-02	6.133429E-02	-2.532470E-03
68.00	1.090755E-01	3.494241E-02	5.620823E-02	-2.254793E-03
70.00	1.057908E-01	3.091393E-02	5.129516E-02	-1.987124E-03
72.00	1.026576E-01	2.723469E-02	4.658583E-02	-1.729885E-03
74.00	9.966603E-02	2.390538E-02	4.207108E-02	-1.483210E-03
76.00	9.680714E-02	2.090265E-02	3.774449E-02	-1.247166E-03
78.00	9.407280E-02	1.821905E-02	3.359716E-02	-1.021423E-03
80.00	9.145581E-02	1.584292E-02	2.962205E-02	-8.060060E-04
82.00	8.894969E-02	1.376246E-02	2.581521E-02	-6.007337E-04
84.00	8.654849E-02	1.196590E-02	2.216823E-02	-4.055443E-04
86.00	8.424680E-02	1.044103E-02	1.867627E-02	-2.212734E-04
88.00	8.203971E-02	9.176223E-03	1.533357E-02	-4.473895E-05
90.00	7.992273E-02	8.159418E-03	1.213624E-02	1.212957E-04
92.00	7.789190E-02	7.378591E-03	9.078169E-03	2.781572E-04
94.00	7.594327E-02	6.821663E-03	6.155065E-03	4.262340E-04
96.00	7.407395E-02	6.476470E-03	3.362437E-03	5.659195E-04
98.00	7.228026E-02	6.330774E-03	6.959039E-04	6.974779E-04
100.00	7.056118E-02	6.372361E-03	-1.849859E-03	8.210919E-04
102.00	6.891221E-02	6.589183E-03	-4.276282E-03	9.369468E-04
104.00	6.733141E-02	6.968801E-03	-6.593473E-03	1.045218E-03
106.00	6.581637E-02	7.499862E-03	-8.795644E-03	1.146309E-03
108.00	6.436480E-02	8.170303E-03	-1.089591E-02	1.239467E-03
110.00	6.297455E-02	8.968670E-03	-1.289533E-02	1.325733E-03
112.00	6.164359E-02	9.883724E-03	-1.479754E-02	1.404922E-03
114.00	6.037007E-02	1.090455E-02	-1.660774E-02	1.477229E-03
116.00	5.915232E-02	1.202153E-02	-1.832042E-02	1.542902E-03
118.00	5.798895E-02	1.322129E-02	-1.996437E-02	1.602156E-03
120.00	5.687829E-02	1.449668E-02	-2.151070E-02	1.655130E-03
122.00	5.581938E-02	1.583697E-02	-2.299521E-02	1.701591E-03
124.00	5.481094E-02	1.723240E-02	-2.439745E-02	1.742393E-03
126.00	5.385192E-02	1.867407E-02	-2.572858E-02	1.776037E-03
128.00	5.294142E-02	2.015339E-02	-2.699294E-02	1.804630E-03
130.00	5.207874E-02	2.166239E-02	-2.819286E-02	1.826453E-03
132.00	5.126335E-02	2.319370E-02	-2.933150E-02	1.842219E-03
134.00	5.049484E-02	2.474045E-02	-3.041322E-02	1.851976E-03
136.00	4.977281E-02	2.629616E-02	-3.143988E-02	1.855354E-03
138.00	4.909679E-02	2.785424E-02	-3.241491E-02	1.852369E-03
140.00	4.846612E-02	2.940806E-02	-3.334142E-02	1.841202E-03
142.00	4.787990E-02	3.095002E-02	-3.422286E-02	1.820100E-03
144.00	4.733717E-02	3.247184E-02	-3.506320E-02	1.786479E-03
146.00	4.683724E-02	3.396461E-02	-3.586745E-02	1.737360E-03
148.00	4.638022E-02	3.541927E-02	-3.664091E-02	1.669710E-03
150.00	4.596729E-02	3.682684E-02	-3.738976E-02	1.580719E-03
152.00	4.560062E-02	3.817823E-02	-3.812053E-02	1.467467E-03
154.00	4.528303E-02	3.946242E-02	-3.884008E-02	1.326132E-03
156.00	4.501870E-02	4.066522E-02	-3.955537E-02	1.151078E-03
158.00	4.481482E-02	4.176972E-02	-4.027334E-02	9.406354E-04
160.00	4.468372E-02	4.275933E-02	-4.099955E-02	6.917733E-04
162.00	4.464789E-02	4.363017E-02	-4.173850E-02	4.167907E-04
164.00	4.472740E-02	4.440917E-02	-4.249467E-02	1.400377E-04
166.00	4.497857E-02	4.514716E-02	-4.329957E-02	-8.080796E-05
168.00	4.538437E-02	4.580292E-02	-4.415213E-02	-2.495951E-04
170.00	4.594875E-02	4.662733E-02	-4.509609E-02	-3.477793E-04
172.00	4.664046E-02	4.736412E-02	-4.611265E-02	-3.959647E-04
174.00	4.747785E-02	4.815789E-02	-4.716614E-02	-3.746844E-04
176.00	4.819173E-02	4.863132E-02	-4.816825E-02	-2.945493E-04
178.00	4.990062E-02	4.914983E-02	-4.893513E-02	-1.160143E-04
180.00	4.922245E-02	4.922245E-02	-4.922245E-02	-1.155470E-17

TABLE D13. NORMALIZED PHASE MATRIX FOR TYPE C AEROSOLS, MODEL 700, λ=0.45μ

M=1.55-0.01I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	3.400676E+00	3.400476E+00	3.400675E+00	-3.110235E-13
.10	3.337533E+00	3.337584E+00	3.337544E+00	-3.681450E-04
.20	3.159875E+00	3.159969E+00	3.159931E+00	-1.287573E-03
.30	2.890613E+00	2.893757E+00	2.890683E+00	-2.523362E-03
.40	2.599399E+00	2.599507E+00	2.599499E+00	-3.702797E-03
.50	2.301361E+00	2.301480E+00	2.301475E+00	-4.553191E-03
.60	2.937308E+00	2.037565E+00	2.037421E+00	-4.953583E-03
.70	1.823753E+00	1.823905E+00	1.823853E+00	-4.564485E-03
.80	1.662404E+00	1.662617E+00	1.662484E+00	-4.730896E-03
.90	1.544780E+00	1.544962E+00	1.544842E+00	-4.448155E-03
1.00	1.458350E+00	1.459507E+00	1.458397E+00	-4.207470E-03
1.10	1.391651E+00	1.391791E+00	1.391680E+00	-4.067267E-03
1.20	1.336942E+00	1.337072E+00	1.336973E+00	-3.992445E-03
1.30	1.290341E+00	1.290462E+00	1.290365E+00	-3.646403E-03
1.40	1.250438E+00	1.250550E+00	1.250456E+00	-3.879223E-03
1.50	1.216657E+00	1.216761E+00	1.216662E+00	-3.805467E-03
1.60	1.188232E+00	1.188327E+00	1.188238E+00	-3.748369E-03
1.70	1.164011E+00	1.164101E+00	1.164013E+00	-3.712692E-03
1.80	1.142793E+00	1.142979E+00	1.142791E+00	-3.703288E-03
1.90	1.123703E+00	1.123787E+00	1.123693E+00	-3.716867E-03
2.00	1.106325E+00	1.106406E+00	1.106317E+00	-3.724476E-03
3.00	9.874118E-01	9.874686E-01	9.877740E-01	-3.681020E-03
4.00	9.415449E-01	9.415892E-01	9.414809E-01	-4.630133E-03
5.00	9.033187E-01	9.033641E-01	9.032248E-01	-5.531874E-03
6.00	8.725191E-01	8.725465E-01	8.723875E-01	-6.652353E-03
7.00	8.450866E-01	8.451024E-01	8.449457E-01	-7.620474E-03
8.00	8.192503E-01	8.192458E-01	8.190063E-01	-9.318108E-03
9.00	7.941778E-01	7.941628E-01	7.938857E-01	-1.075208E-02
10.00	7.694117E-01	7.693543E-01	7.689959E-01	-1.232745E-02
11.00	7.447135E-01	7.446172E-01	7.441877E-01	-1.386636E-02
12.00	7.199815E-01	7.199398E-01	7.193295E-01	-1.547279E-02
13.00	6.951981E-01	6.950814E-01	6.944040E-01	-1.703780E-02
14.00	6.703885E-01	6.701304E-01	6.694376E-01	-1.855515E-02
15.00	6.456001E-01	6.452732E-01	6.444704E-01	-2.003806E-02
16.00	6.208947E-01	6.204931E-01	6.195503E-01	-2.143254E-02
17.00	5.963433E-01	5.958615E-01	5.948456E-01	-2.273614E-02
18.00	5.720208E-01	5.714547E-01	5.703210E-01	-2.397229E-02
19.00	5.480081E-01	5.473469E-01	5.460987E-01	-2.508573E-02
20.00	5.243518E-01	5.236095E-01	5.222256E-01	-2.605920E-02
22.00	4.784249E-01	4.775062E-01	4.758541E-01	-2.774606E-02
24.00	4.346857E-01	4.335842E-01	4.316573E-01	-2.891217E-02
26.00	3.934802E-01	3.922541E-01	3.899681E-01	-2.958214E-02
28.00	3.550798E-01	3.536978E-01	3.511244E-01	-2.978004E-02
30.00	3.196817E-01	3.180761E-01	3.151479E-01	-2.954262E-02
32.00	2.871135E-01	2.854369E-01	2.822497E-01	-2.891599E-02
34.00	2.575935E-01	2.557409E-01	2.522412E-01	-2.797432E-02
36.00	2.309534E-01	2.289177E-01	2.252282E-01	-2.678074E-02
38.00	2.070543E-01	2.049012E-01	2.009255E-01	-2.535286E-02
40.00	1.857203E-01	1.832233E-01	1.792108E-01	-2.380755E-02
42.00	1.667510E-01	1.639060E-01	1.590067E-01	-2.218676E-02
44.00	1.499358E-01	1.469811E-01	1.427427E-01	-2.052767E-02
46.00	1.350560E-01	1.316999E-01	1.275642E-01	-1.890376E-02
48.00	1.219014E-01	1.182391E-01	1.141413E-01	-1.728376E-02
50.00	1.102719E-01	1.063088E-01	1.022746E-01	-1.572247E-02
52.00	9.998220E-02	9.573060E-02	9.177900E-02	-1.430680E-02
54.00	9.088821E-02	8.634794E-02	8.248653E-02	-1.298658E-02
56.00	8.276778E-02	7.981746E-02	7.424660E-02	-1.178557E-02
58.00	7.556075E-02	7.061288E-02	6.692569E-02	-1.065370E-02
60.00	6.312798E-02	6.407360E-02	6.040720E-02	-9.497283E-03
62.00	6.337061E-02	5.813324E-02	5.479203E-02	-9.530141E-03
64.00	5.420372E-02	5.291819E-02	4.930760E-02	-7.644686E-03
66.00	5.355641E-02	4.824642E-02	4.472573E-02	-6.832391E-03
68.00	4.938855E-02	4.407554E-02	4.054181E-02	-6.084246E-03
70.00	4.559025E-02	4.035377E-02	3.678222E-02	-5.392435E-03
72.00	4.217919E-02	3.702393E-02	3.340089E-02	-4.749682E-03
74.00	3.909534E-02	3.405261E-02	3.037595E-02	-4.151286E-03
76.00	3.530906E-02	3.139937E-02	2.751756E-02	-3.585620E-03
78.00	3.379017E-02	2.903139E-02	2.514575E-02	-3.063079E-03
80.00	3.151270E-02	2.691432E-02	2.292674E-02	-2.565999E-03
82.00	2.947325E-02	2.503447E-02	2.092282E-02	-2.105696E-03
84.00	2.759027E-02	2.335549E-02	1.911923E-02	-1.659707E-03
86.00	2.590401E-02	2.185975E-02	1.748939E-02	-1.259572E-03
88.00	2.437661E-02	2.052544E-02	1.601845E-02	-8.754460E-04
90.00	2.299873E-02	1.934677E-02	1.468233E-02	-5.158159E-04
92.00	2.177199E-02	1.829394E-02	1.349157E-02	-1.795174E-04
94.00	2.058592E-02	1.735293E-02	1.239015E-02	1.348031E-04
96.00	1.954025E-02	1.654043E-02	1.139839E-02	4.279511E-04
98.00	1.858376E-02	1.581211E-02	1.048815E-02	7.026953E-04
100.00	1.770711E-02	1.519955E-02	9.658799E-03	9.594203E-04
102.00	1.690272E-02	1.463992E-02	8.839172E-03	1.202529E-03
104.00	1.516455E-02	1.417559E-02	8.202612E-03	1.434231E-03
106.00	1.549733E-02	1.378897E-02	7.553647E-03	1.657616E-03
108.00	1.486924E-02	1.347745E-02	6.977689E-03	1.874076E-03
110.00	1.430535E-02	1.323939E-02	6.440932E-03	2.088246E-03
112.00	1.379327E-02	1.307361E-02	5.950037E-03	2.299237E-03
114.00	1.332983E-02	1.297915E-02	5.501720E-03	2.505107E-03
116.00	1.291153E-02	1.295506E-02	5.092446E-03	2.717783E-03
118.00	1.253383E-02	1.300818E-02	4.719212E-03	2.924771E-03
120.00	1.219149E-02	1.311269E-02	4.374345E-03	3.128561E-03
122.00	1.187834E-02	1.329067E-02	4.055151E-03	3.326645E-03
124.00	1.158751E-02	1.353097E-02	3.757733E-03	3.515500E-03
126.00	1.131108E-02	1.382945E-02	3.461557E-03	3.690663E-03
128.00	1.104085E-02	1.419081E-02	3.170503E-03	3.846786E-03
130.00	1.076879E-02	1.457826E-02	2.868952E-03	3.978596E-03
132.00	1.048769E-02	1.501579E-02	2.546145E-03	4.078325E-03
134.00	1.019196E-02	1.548295E-02	2.190474E-03	4.140543E-03
136.00	9.878138E-03	1.596986E-02	1.790234E-03	4.155309E-03
138.00	9.547918E-03	1.646523E-02	1.333887E-03	4.123084E-03
140.00	9.198197E-03	1.695737E-02	8.105595E-04	4.038756E-03
142.00	8.847027E-03	1.743456E-02	2.185123E-04	3.896127E-03
144.00	8.492105E-03	1.788540E-02	-4.741779E-04	3.678604E-03
146.00	8.162450E-03	1.829495E-02	-1.249363E-03	3.403466E-03
148.00	7.475135E-03	1.866501E-02	-2.110269E-03	3.066219E-03
150.00	7.686340E-03	1.897442E-02	-3.081345E-03	2.676593E-03
152.00	7.531236E-03	1.921960E-02	-4.136383E-03	2.224747E-03
154.00	7.532743E-03	1.939526E-02	-5.270282E-03	1.732601E-03
156.00	7.450246E-03	1.949933E-02	-6.499980E-03	1.223384E-03
158.00	8.033371E-03	1.953454E-02	-7.792241E-03	7.085478E-04
160.00	8.589623E-03	1.951065E-02	-9.144583E-03	1.931023E-04
162.00	9.382706E-03	1.944841E-02	-1.054363E-02	-2.840763E-04
164.00	1.142914E-02	1.939596E-02	-1.197305E-02	-6.474499E-04
166.00	1.172761E-02	1.937528E-02	-1.342272E-02	-8.525889E-04
168.00	1.324423E-02	1.945907E-02	-1.487673E-02	-9.957793E-04
170.00	1.490953E-02	1.965818E-02	-1.630891E-02	-9.587632E-04
172.00	1.661805E-02	1.993831E-02	-1.757605E-02	-9.072797E-04
174.00	1.823503E-02	2.028126E-02	-1.891754E-02	-5.887211E-04
176.00	1.960908E-02	2.061323E-02	-1.995484E-02	-3.395776E-04
178.00	2.057313E-02	2.085554E-02	-2.069445E-02	-1.103277E-04
180.00	2.095258E-02	2.095258E-02	-2.095259E-02	-1.390949E-17

TABLE 3-14. NORMALIZED PHASE MATRIX FOR TYPE C AEROSOLS, MODEL 700.; λ=0.55μ

M=1.55-0.01I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	2.000111E+00	2.000111E+00	2.000111E+00	-2.367100E-19
.10	[illegible]	[illegible]	[illegible]	[illegible]
.20	2.739952E+00	2.739413E+00	2.739302E+00	-9.264262E-04
.30	[illegible]	[illegible]	[illegible]	[illegible]
.40	2.303870E+00	2.303750E+00	2.303081E+00	-2.964365E-03
.50	[illegible]	[illegible]	[illegible]	[illegible]
.60	1.983180E+00	1.963370E+00	1.963227E+00	-4.049473E-03
.70	[illegible]	[illegible]	[illegible]	[illegible]
.80	1.610621E+00	1.610890E+00	1.610739E+00	-5.159972E-03
.90	[illegible]	[illegible]	[illegible]	[illegible]
1.00	1.379419E+00	1.379632E+00	1.379492E+00	-4.824270E-03
1.10	[illegible]	[illegible]	[illegible]	[illegible]
1.20	1.234077E+00	1.234224E+00	1.234112E+00	-4.373143E-03
1.30	[illegible]	[illegible]	[illegible]	[illegible]
1.40	1.142930E+00	1.143032E+00	1.142939E+00	-4.190331E-03
1.50	[illegible]	[illegible]	[illegible]	[illegible]
1.60	1.075191E+00	1.075259E+00	1.075179E+00	-4.050009E-03
1.70	[illegible]	[illegible]	[illegible]	[illegible]
1.80	1.022040E+00	1.022079E+00	1.022013E+00	-3.939747E-03
1.90	[illegible]	[illegible]	[illegible]	[illegible]
2.00	9.831741E-01	9.831710E-01	9.831199E-01	-3.831746E-03
3.00	[illegible]	[illegible]	[illegible]	[illegible]
4.00	8.110999E-01	8.107379E-01	8.100207E-01	-4.171337E-03
5.00	[illegible]	[illegible]	[illegible]	[illegible]
6.00	7.469419E-01	7.460509E-01	7.463501E-01	-5.371770E-03
7.00	[illegible]	[illegible]	[illegible]	[illegible]
8.00	7.039916E-01	7.010030E-01	7.023051E-01	-7.124012E-03
9.00	[illegible]	[illegible]	[illegible]	[illegible]
10.00	6.654164E-01	6.629599E-01	6.630744E-01	-9.193400E-03
11.00	[illegible]	[illegible]	[illegible]	[illegible]
12.00	6.291322E-01	6.256005E-01	6.269510E-01	-1.143720E-02
13.00	[illegible]	[illegible]	[illegible]	[illegible]
14.00	5.932941E-01	5.886547E-01	5.903400E-01	-1.374222E-02
15.00	[illegible]	[illegible]	[illegible]	[illegible]
16.00	5.574613E-01	5.516578E-01	5.537663E-01	-1.600361E-02
17.00	[illegible]	[illegible]	[illegible]	[illegible]
18.00	5.210363E-01	5.147931E-01	5.173137E-01	-1.814059E-02
19.00	[illegible]	[illegible]	[illegible]	[illegible]
20.00	4.960007E-01	4.743261E-01	4.812343E-01	-2.008902E-02
22.00	[illegible]	[illegible]	[illegible]	[illegible]
24.00	4.184072E-01	4.079547E-01	4.113009E-01	-2.322711E-02
26.00	[illegible]	[illegible]	[illegible]	[illegible]
28.00	3.549454E-01	3.423513E-01	3.463929E-01	-2.521154E-02
30.00	[illegible]	[illegible]	[illegible]	[illegible]
32.00	2.977090E-01	2.848229E-01	2.878437E-01	-2.595535E-02
34.00	[illegible]	[illegible]	[illegible]	[illegible]
36.00	2.479011E-01	2.330794E-01	2.365793E-01	-2.595000E-02
38.00	[illegible]	[illegible]	[illegible]	[illegible]
40.00	2.045243E-01	1.890522E-01	1.920853E-01	-2.429016E-02
42.00	[illegible]	[illegible]	[illegible]	[illegible]
44.00	1.685047E-01	1.539135E-01	1.562286E-01	-2.231063E-02
46.00	1.527240E-01	1.384784E-01	1.404733E-01	-2.115123E-02
48.00	1.380380E-01	1.245640E-01	1.261847E-01	-1.991111E-02
50.00	[illegible]	[illegible]	[illegible]	[illegible]
52.00	1.147319E-01	1.008971E-01	1.010820E-01	-1.731763E-02
54.00	[illegible]	[illegible]	[illegible]	[illegible]
56.00	9.332774E-02	8.197597E-02	8.239859E-02	-1.472797E-02
58.00	[illegible]	[illegible]	[illegible]	[illegible]

SCAT/ERING ANGLE	I1	I2	I3	I4
60.00	7.970443E-02	6.692551E-02	6.679607E-02	-1.227593E-02
62.00	[illegible]	[illegible]	[illegible]	[illegible]
64.00	6.739425E-02	5.497661E-02	5.440091E-02	-1.005706E-02
66.00	[illegible]	[illegible]	[illegible]	[illegible]
68.00	5.734029E-02	4.548610E-02	4.450294E-02	-8.097616E-03
70.00	[illegible]	[illegible]	[illegible]	[illegible]
72.00	4.925876E-02	3.793624E-02	3.655905E-02	-6.405630E-03
74.00	[illegible]	[illegible]	[illegible]	[illegible]
76.00	4.269530E-02	3.192079E-02	3.013019E-02	-4.962210E-03
78.00	[illegible]	[illegible]	[illegible]	[illegible]
80.00	3.721021E-02	2.712771E-02	2.490647E-02	-3.737293E-03
82.00	[illegible]	[illegible]	[illegible]	[illegible]
84.00	3.270070E-02	2.331772E-02	2.061175E-02	-2.607973E-03
86.00	[illegible]	[illegible]	[illegible]	[illegible]
88.00	2.992591E-02	2.030000E-02	1.706334E-02	-1.777225E-03
90.00	[illegible]	[illegible]	[illegible]	[illegible]
92.00	2.576259E-02	1.795906E-02	1.412603E-02	-9.721147E-04
94.00	[illegible]	[illegible]	[illegible]	[illegible]
96.00	2.311199E-02	1.616262E-02	1.160501E-02	-2.465453E-04
98.00	[illegible]	[illegible]	[illegible]	[illegible]
100.00	2.089612E-02	1.483270E-02	9.650375E-03	4.172541E-04
102.00	[illegible]	[illegible]	[illegible]	[illegible]
104.00	1.984613E-02	1.389995E-02	7.970369E-03	1.022209E-03
106.00	[illegible]	[illegible]	[illegible]	[illegible]
108.00	1.749563E-02	1.333757E-02	6.354790E-03	1.509600E-03
110.00	[illegible]	[illegible]	[illegible]	[illegible]
112.00	1.610123E-02	1.300717E-02	5.347447E-03	2.100009E-03
114.00	[illegible]	[illegible]	[illegible]	[illegible]
116.00	1.504315E-02	1.295000E-02	4.285579E-03	2.557039E-03
118.00	[illegible]	[illegible]	[illegible]	[illegible]
120.00	1.402786E-02	[illegible]	3.307421E-03	2.951212E-03
122.00	[illegible]	[illegible]	[illegible]	[illegible]
124.00	1.308902E-02	1.344734E-02	2.353413E-03	3.272702E-03
126.00	[illegible]	[illegible]	[illegible]	[illegible]
128.00	1.219963E-02	1.390991E-02	1.367975E-03	3.507434E-03
130.00	[illegible]	[illegible]	[illegible]	[illegible]
132.00	1.134099E-02	1.445363E-02	3.022550E-04	3.630067E-03
134.00	[illegible]	[illegible]	[illegible]	[illegible]
136.00	1.359207E-02	1.507042E-02	-6.917063E-04	3.655760E-03
138.00	[illegible]	[illegible]	[illegible]	[illegible]
140.00	9.851342E-03	1.569291E-02	-2.237720E-03	3.527805E-03
142.00	[illegible]	[illegible]	[illegible]	[illegible]
144.00	9.311001E-03	1.629301E-02	-3.683983E-03	3.262200E-03
146.00	[illegible]	[illegible]	[illegible]	[illegible]
148.00	9.009010E-03	1.683422E-02	-5.303004E-03	2.647614E-03
150.00	[illegible]	[illegible]	[illegible]	[illegible]
152.00	9.027932E-03	1.727227E-02	-7.049532E-03	2.296146E-03
154.00	[illegible]	[illegible]	[illegible]	[illegible]
156.00	9.448300E-03	1.756725E-02	-8.696565E-03	1.598153E-03
158.00	[illegible]	[illegible]	[illegible]	[illegible]
160.00	1.034499E-02	1.769899E-02	-1.081641E-02	8.417552E-04
162.00	[illegible]	[illegible]	[illegible]	[illegible]
164.00	1.170995E-02	1.772414E-02	-1.277270E-02	1.475079E-04
166.00	[illegible]	[illegible]	[illegible]	[illegible]
168.00	1.370014E-02	1.796830E-02	-1.473726E-02	-2.711649E-04
170.00	[illegible]	[illegible]	[illegible]	[illegible]
172.00	1.607104E-02	1.827787E-02	-1.665595E-02	-3.475246E-04
174.00	[illegible]	[illegible]	[illegible]	[illegible]
176.00	1.809494E-02	1.879053E-02	-1.820766E-02	-1.896505E-04
178.00	1.877346E-02	1.897902E-02	-1.884439E-02	-7.497400E-05
180.00	1.905473E-02	1.905473E-02	-1.905473E-02	-9.265736E-19

TABLE 15. NORMALIZED PHASE MATRIX FOR TYPE C AEROSOLS, MODEL 700, λ=0.70μ

M=1.55-0.01I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	2.537714E+00	2.537714E+00	2.537714E+00	-2.136377E-13
.10	2.517165E+00	2.517170E+00	2.517171E+00	-1.748223E-04
.20	2.457147E+00	2.457190E+00	2.457172E+00	-6.751927E-04
.30	2.362346E+00	2.362452E+00	2.362300E+00	-1.433173E-03
.40	2.239925E+00	2.240076E+00	2.239989E+00	-2.345117E-03
.50	2.098654E+00	2.098782E+00	2.098669E+00	-3.385825E-03
.60	1.947595E+00	1.947881E+00	1.947724E+00	-4.203548E-03
.70	1.796816E+00	1.796170E+00	1.796992E+00	-4.944439E-03
.80	1.650042E+00	1.651204E+00	1.651003E+00	-5.478126E-03
.90	1.518270E+00	1.518683E+00	1.518304E+00	-5.786171E-03
1.00	1.401501E+00	1.401840E+00	1.401641E+00	-5.806413E-03
1.10	1.301000E+00	1.302306E+00	1.302107E+00	-5.823194E-03
1.20	1.219271E+00	1.213549E+00	1.219365E+00	-5.650525E-03
1.30	1.151613E+00	1.151847E+00	1.151681E+00	-5.425767E-03
1.40	1.096535E+00	1.096727E+00	1.096579E+00	-5.207100E-03
1.50	1.051337E+00	1.051461E+00	1.051361E+00	-5.016027E-03
1.60	1.013523E+00	1.013641E+00	1.013529E+00	-4.878570E-03
1.70	9.814468E-01	9.811337E-01	9.810318E-01	-4.765721E-03
1.80	9.524349E-01	9.524959E-01	9.524054E-01	-4.702187E-03
1.90	9.267549E-01	9.267917E-01	9.267417E-01	-4.652787E-03
2.00	9.024919E-01	9.033897E-01	9.034397E-01	-4.607535E-03
3.00	7.834007E-01	7.834680E-01	7.837065E-01	-4.364154E-03
4.00	6.960178E-01	6.962402E-01	6.964252E-01	-4.297161E-03
5.00	6.562141E-01	6.552651E-01	6.556842E-01	-4.485954E-03
6.00	6.277051E-01	6.263871E-01	6.269275E-01	-4.819218E-03
7.00	6.057752E-01	6.038593E-01	6.046297E-01	-5.241306E-03
8.00	5.873074E-01	5.849860E-01	5.859139E-01	-5.750243E-03
9.00	5.711158E-01	5.679688E-01	5.692703E-01	-6.343621E-03
10.00	5.561540E-01	5.522937E-01	5.539183E-01	-6.975273E-03
11.00	5.420304E-01	5.374030E-01	5.393456E-01	-7.651088E-03
12.00	5.284050E-01	5.230214E-01	5.253446E-01	-8.349460E-03
13.00	5.153196E-01	5.089760E-01	5.116019E-01	-9.065041E-03
14.00	5.024238E-01	4.951530E-01	4.982623E-01	-9.794419E-03
15.00	4.897190E-01	4.814034E-01	4.850112E-01	-1.053456E-02
16.00	4.771549E-01	4.679171E-01	4.718791E-01	-1.126566E-02
17.00	4.646993E-01	4.544717E-01	4.588393E-01	-1.199603E-02
18.00	4.523384E-01	4.410184E-01	4.458802E-01	-1.271769E-02
19.00	4.400641E-01	4.276797E-01	4.330009E-01	-1.342251E-02
20.00	4.278900E-01	4.144248E-01	4.202054E-01	-1.411031E-02
22.00	4.038417E-01	3.882173E-01	3.949060E-01	-1.544379E-02
24.00	3.802630E-01	3.625186E-01	3.700750E-01	-1.659904E-02
26.00	3.572440E-01	3.374634E-01	3.458234E-01	-1.765025E-02
28.00	3.340951E-01	3.131853E-01	3.222674E-01	-1.854569E-02
30.00	3.132041E-01	2.898830E-01	2.995101E-01	-1.920900E-02
32.00	2.925017E-01	2.674152E-01	2.776295E-01	-1.986650E-02
34.00	2.725951E-01	2.461009E-01	2.567279E-01	-2.027930E-02
36.00	2.536138E-01	2.259166E-01	2.368276E-01	-2.053097E-02
38.00	2.359067E-01	2.069014E-01	2.174776E-01	-2.062809E-02
40.00	2.185343E-01	1.880739E-01	2.001909E-01	-2.057433E-02
42.00	2.024629E-01	1.724356E-01	1.834990E-01	-2.038214E-02
44.00	1.873703E-01	1.569759E-01	1.670739E-01	-2.008879E-02
46.00	1.732438E-01	1.426710E-01	1.533090E-01	-1.962216E-02
48.00	1.600649E-01	1.294870E-01	1.397802E-01	-1.907985E-02
50.00	1.470055E-01	1.173811E-01	1.272851E-01	-1.844450E-02
52.00	1.364351E-01	1.063039E-01	1.156954E-01	-1.773175E-02
54.00	1.258175E-01	9.628802E-02	1.050875E-01	-1.695355E-02
56.00	1.162133E-01	8.701450E-02	9.529443E-02	-1.612260E-02
58.00	1.072085E-01	7.868523E-02	8.635651E-02	-1.525132E-02
60.00	9.907569E-02	7.115274E-02	7.919285E-02	-1.435110E-02
62.00	9.155453E-02	6.433752E-02	7.075202E-02	-1.343303E-02
64.00	8.467231E-02	5.824147E-02	6.398257E-02	-1.250710E-02
66.00	7.838448E-02	5.274730E-02	5.783379E-02	-1.158206E-02
68.00	7.264739E-02	4.782295E-02	5.225644E-02	-1.066571E-02
70.00	6.741969E-02	4.341515E-02	4.720317E-02	-9.759014E-03
72.00	6.265758E-02	3.947680E-02	4.262877E-02	-8.885485E-03
74.00	5.832496E-02	3.596362E-02	3.849345E-02	-8.033272E-03
76.00	5.438365E-02	3.283473E-02	3.474789E-02	-7.211160E-03
78.00	5.079847E-02	3.005261E-02	3.136332E-02	-6.422213E-03
80.00	4.753636E-02	2.759295E-02	2.930161E-02	-5.686446E-03
82.00	4.456643E-02	2.539447E-02	2.553042E-02	-4.955976E-03
84.00	4.186645E-02	2.345835E-02	2.302003E-02	-4.272430E-03
86.00	3.939212E-02	2.175079E-02	2.074227E-02	-3.626550E-03
88.00	3.713749E-02	2.024776E-02	1.867524E-02	-3.020099E-03
90.00	3.507458E-02	1.892946E-02	1.679323E-02	-2.448526E-03
92.00	3.318342E-02	1.777758E-02	1.507582E-02	-1.912239E-03
94.00	3.144890E-02	1.677540E-02	1.350713E-02	-1.408675E-03
96.00	2.984568E-02	1.590959E-02	1.206756E-02	-9.367207E-04
98.00	2.836804E-02	1.516597E-02	1.074275E-02	-4.942062E-04
100.00	2.699986E-02	1.453341E-02	9.519052E-03	-8.141377E-05
102.00	2.572950E-02	1.400160E-02	8.313581E-03	3.045561E-04
104.00	2.454670E-02	1.356113E-02	7.326185E-03	6.657703E-04
106.00	2.344244E-02	1.320345E-02	6.335482E-03	1.002299E-03
108.00	2.249882E-02	1.292091E-02	5.402741E-03	1.315556E-03
110.00	2.143959E-02	1.270674E-02	4.519685E-03	1.606230E-03
112.00	2.052719E-02	1.255454E-02	3.678769E-03	1.875298E-03
114.00	1.966866E-02	1.245978E-02	2.873199E-03	2.122561E-03
116.00	1.885963E-02	1.241631E-02	2.096931E-03	2.345707E-03
118.00	1.809724E-02	1.242409E-02	1.344656E-03	2.555722E-03
120.00	1.737954E-02	1.246696E-02	6.117479E-04	2.740571E-03
122.00	1.670529E-02	1.255329E-02	-1.057462E-04	2.902211E-03
124.00	1.607390E-02	1.267573E-02	-8.112985E-04	3.040631E-03
126.00	1.548538E-02	1.283103E-02	-1.507236E-03	3.166046E-03
128.00	1.494023E-02	1.301618E-02	-2.197474E-03	3.266509E-03
130.00	1.443847E-02	1.322866E-02	-2.882510E-03	3.341329E-03
132.00	1.398444E-02	1.345420E-02	-3.564470E-03	3.391128E-03
134.00	1.357670E-02	1.372180E-02	-4.244586E-03	3.415243E-03
136.00	1.321793E-02	1.399844E-02	-4.923793E-03	3.412790E-03
138.00	1.290885E-02	1.429187E-02	-5.602537E-03	3.382902E-03
140.00	1.265476E-02	1.459665E-02	-6.281280E-03	3.323717E-03
142.00	1.245276E-02	1.491100E-02	-6.960305E-03	3.236264E-03
144.00	1.230696E-02	1.523324E-02	-7.639515E-03	3.116509E-03
146.00	1.221820E-02	1.556636E-02	-8.319420E-03	2.967814E-03
148.00	1.218821E-02	1.587684E-02	-9.000104E-03	2.786728E-03
150.00	1.221870E-02	1.618985E-02	-9.682125E-03	2.576609E-03
152.00	1.231020E-02	1.649828E-02	-1.036558E-02	2.336280E-03
154.00	1.246956E-02	1.677377E-02	-1.105003E-02	2.065640E-03
156.00	1.268787E-02	1.703156E-02	-1.173087E-02	1.777355E-03
158.00	1.297866E-02	1.726851E-02	-1.242047E-02	1.465712E-03
160.00	1.334209E-02	1.745420E-02	-1.312305E-02	1.140528E-03
162.00	1.378082E-02	1.761311E-02	-1.381493E-02	8.136056E-04
164.00	1.431682E-02	1.775389E-02	-1.451605E-02	5.077649E-04
166.00	1.494330E-02	1.788866E-02	-1.521728E-02	2.816180E-04
168.00	1.565486E-02	1.810481E-02	-1.593252E-02	5.645529E-05
170.00	1.643031E-02	1.834630E-02	-1.666101E-02	-7.381751E-05
172.00	1.722851E-02	1.862669E-02	-1.738980E-02	-1.463683E-04
174.00	1.800369E-02	1.892033E-02	-1.809624E-02	-1.645830E-04
176.00	1.860480E-02	1.918285E-02	-1.874249E-02	-1.303009E-04
178.00	1.920594E-02	1.936666E-02	-1.924645E-02	-6.055733E-05
180.00	1.944347E-02	1.944347E-02	-1.944347E-02	-6.255880E-19

TABLE 316. NORMALIZED PHASE MATRIX FOR TYPE C AEROSOLS, MODEL 700, λ=1.60μ

M=1.95-0.01I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	2.862174E+00	2.862174E+00	2.862174E+00	-2.500921E-19
.10	[illegible]	[illegible]	[illegible]	[illegible]
.20	2.841523E+00	2.841560E+00	2.841549E+00	-3.790901E-04
.30	[illegible]	[illegible]	[illegible]	[illegible]
.40	2.780057E+00	2.781022E+00	2.780539E+00	-1.475105E-03
.50	[illegible]	[illegible]	[illegible]	[illegible]
.60	2.683901E+00	2.684234E+00	2.684079E+00	-3.170069E-03
.70	[illegible]	[illegible]	[illegible]	[illegible]
.80	2.556452E+00	2.557030E+00	2.556736E+00	-5.202201E-03
.90	[illegible]	[illegible]	[illegible]	[illegible]
1.00	2.405810E+00	2.406640E+00	2.406206E+00	-7.015210E-03
1.10	[illegible]	[illegible]	[illegible]	[illegible]
1.20	2.240092E+00	2.241159E+00	2.240509E+00	-9.932139E-03
1.30	[illegible]	[illegible]	[illegible]	[illegible]
1.40	2.067505E+00	2.060767E+00	2.068079E+00	-1.204053E-02
1.50	[illegible]	[illegible]	[illegible]	[illegible]
1.60	1.895673E+00	1.897076E+00	1.896200E+00	-1.372599E-02
1.70	[illegible]	[illegible]	[illegible]	[illegible]
1.80	1.731074E+00	1.732552E+00	1.731693E+00	-1.507205E-02
1.90	[illegible]	[illegible]	[illegible]	[illegible]
2.00	1.578669E+00	1.580153E+00	1.579254E+00	-1.587033E-02
3.00	[illegible]	[illegible]	[illegible]	[illegible]
4.00	8.303092E-01	8.306291E-01	8.300006E-01	-1.204540E-02
5.00	[illegible]	[illegible]	[illegible]	[illegible]
6.00	6.130163E-01	6.128221E-01	6.127940E-01	-1.127771E-02
7.00	[illegible]	[illegible]	[illegible]	[illegible]
8.00	5.090761E-01	5.077514E-01	5.081232E-01	-1.061079E-02
9.00	[illegible]	[illegible]	[illegible]	[illegible]
10.00	4.467311E-01	4.432597E-01	4.441202E-01	-1.014477E-02
11.00	[illegible]	[illegible]	[illegible]	[illegible]
12.00	4.032993E-01	3.902101E-01	3.996967E-01	-9.822520E-03
13.00	[illegible]	[illegible]	[illegible]	[illegible]
14.00	3.705982E-01	3.636640E-01	3.650904E-01	-9.575317E-03
15.00	[illegible]	[illegible]	[illegible]	[illegible]
16.00	3.443146E-01	3.354247E-01	3.385191E-01	-9.306002E-03
17.00	[illegible]	[illegible]	[illegible]	[illegible]
18.00	3.223110E-01	3.111750E-01	3.152712E-01	-9.242020E-03
19.00	[illegible]	[illegible]	[illegible]	[illegible]
20.00	3.031600E-01	2.895972E-01	2.948019E-01	-9.115461E-03
22.00	[illegible]	[illegible]	[illegible]	[illegible]
24.00	2.707103E-01	2.519749E-01	2.594915E-01	-8.802053E-03
26.00	[illegible]	[illegible]	[illegible]	[illegible]
28.00	2.436790E-01	2.192019E-01	2.293219E-01	-8.991564E-03
30.00	[illegible]	[illegible]	[illegible]	[illegible]
32.00	2.205702E-01	1.902822E-01	2.020017E-01	-8.229013E-03
34.00	[illegible]	[illegible]	[illegible]	[illegible]
36.00	2.005110E-01	1.644170E-01	1.792970E-01	-7.809632E-03
38.00	[illegible]	[illegible]	[illegible]	[illegible]
40.00	1.829000E-01	1.412039E-01	1.501300E-01	-7.334001E-03
42.00	[illegible]	[illegible]	[illegible]	[illegible]
44.00	1.673267E-01	1.203922E-01	1.390169E-01	-6.816597E-03
46.00	1.502094E-01	1.100317E-01	1.391529E-01	-6.543074E-03
48.00	1.534915E-01	1.019090E-01	1.217133E-01	-6.261593E-03
50.00	[illegible]	[illegible]	[illegible]	[illegible]
52.00	1.411543E-01	8.531339E-02	1.058219E-01	-5.683173E-03
54.00	[illegible]	[illegible]	[illegible]	[illegible]
56.00	1.301204E-01	7.078144E-02	9.174197E-02	-5.060362E-03
58.00	[illegible]	[illegible]	[illegible]	[illegible]

SCATTERING ANGLE	I1	I2	I3	I4
60.00	1.202217E-01	5.809392E-02	7.895225E-02	-4.608233E-03
62.00	1.158556E-01	5.246601E-02	7.206160E-02	-4.185490E-03
64.00	1.113237E-01	4.713630E-02	6.711517E-02	-3.804227E-03
66.00	1.072131E-01	4.227008E-02	6.160876E-02	-3.584192E-03
68.00	1.033003E-01	3.779549E-02	5.446309E-02	-3.206378E-03
70.00	9.968181E-02	3.369548E-02	5.151658E-02	-2.992219E-03
72.00	9.607001E-02	2.995602E-02	4.600630E-02	-2.785505E-03
74.00	9.273872E-02	2.666408E-02	4.232272E-02	-2.621395E-03
76.00	8.954752E-02	2.350541E-02	3.805560E-02	-2.162576E-03
78.00	8.652858E-02	2.076422E-02	3.398196E-02	-1.971433E-03
80.00	8.364163E-02	1.832713E-02	3.013419E-02	-1.607642E-03
82.00	[illegible]	1.618826E-02	2.666112E-02	-1.352188E-03
84.00	7.829630E-02	1.430970E-02	2.296810E-02	-1.101570E-03
86.00	7.581260E-02	1.278181E-02	1.964720E-02	[illegible]
88.00	7.345039E-02	1.136204E-02	1.649971E-02	-6.304295E-04
90.00	7.128160E-02	1.021958E-02	1.368893E-02	-6.180861E-04
92.00	6.906075E-02	9.318990E-03	1.064053E-02	-1.948297E-04
94.00	6.702266E-02	8.628129E-03	7.932655E-03	8.085797E-05
96.00	6.502277E-02	8.133974E-03	5.348779E-03	2.838508E-04
98.00	6.323651E-02	7.826619E-03	2.918462E-03	3.872232E-04
100.00	6.147962E-02	7.607962E-03	9.995737E-04	5.830262E-04
102.00	5.988032E-02	7.712836E-03	-1.611641E-03	7.283274E-04
104.00	5.821093E-02	7.885220E-03	-2.690044E-03	8.860506E-04
106.00	5.678742E-02	8.186431E-03	-5.623641E-03	1.025539E-03
108.00	5.527174E-02	8.630000E-03	-7.955110E-03	1.165599E-03
110.00	5.380778E-02	9.128852E-03	-8.968250E-03	1.292361E-03
112.00	5.261307E-02	9.951650E-03	-1.103203E-02	1.405242E-03
114.00	5.130617E-02	1.061366E-02	-1.264630E-02	1.516799E-03
116.00	5.022193E-02	1.165793E-02	-1.410416E-02	1.615161E-03
118.00	4.912689E-02	1.238343E-02	-1.568619E-02	1.784643E-03
120.00	4.800659E-02	1.739002E-02	-1.597931E-02	1.785290E-03
122.00	4.728843E-02	1.443820E-02	-1.827827E-02	1.857593E-03
124.00	4.617685E-02	1.599322E-02	-1.950959E-02	1.921077E-03
126.00	4.530651E-02	1.671641E-02	-2.067401E-02	1.927160E-03
128.00	4.440072E-02	1.791704E-02	-2.170325E-02	2.024729E-03
130.00	4.372826E-02	1.915350E-02	-2.283214E-02	2.064315E-03
132.00	4.301275E-02	2.041826E-02	-2.302667E-02	2.099525E-03
134.00	4.234095E-02	2.170556E-02	-2.476992E-02	2.119530E-03
136.00	4.173570E-02	2.301000E-02	-2.566505E-02	2.135093E-03
138.00	4.116096E-02	2.432600E-02	-2.651934E-02	2.143467E-03
140.00	4.064097E-02	2.565061E-02	-2.732413E-02	2.141447E-03
142.00	4.017992E-02	2.697746E-02	-2.809515E-02	2.134594E-03
144.00	3.974623E-02	2.830285E-02	-2.003239E-02	2.111997E-03
146.00	3.936220E-02	2.962184E-02	-2.954836E-02	2.086084E-03
148.00	3.902256E-02	3.992804E-02	-3.022426E-02	2.035202E-03
150.00	3.872647E-02	3.221293E-02	-3.089675E-02	1.978303E-03
152.00	3.447596E-02	3.346546E-02	-3.154575E-02	1.075577E-03
154.00	3.827142E-02	3.467107E-02	-3.219952E-02	1.756438E-03
156.00	3.811970E-02	3.581100E-02	-3.296177E-02	1.590552E-03
158.00	3.802058E-02	3.686160E-02	-3.354409E-02	1.374475E-03
160.00	3.401322E-02	3.779052E-02	-2.425795E-02	1.095500E-03
162.00	3.810097E-02	3.860832E-02	-3.500816E-02	7.722837E-04
164.00	3.833600E-02	3.930751E-02	-3.579967E-02	4.314166E-04
166.00	3.875878E-02	4.003888E-02	-3.665808E-02	1.356896E-04
168.00	3.930044E-02	4.075741E-02	-3.755346E-02	-9.297712E-05
170.00	4.010230E-02	4.157890E-02	-3.879125E-02	-2.646461E-04
172.00	4.112672E-02	4.244670E-02	-4.008213E-02	-3.842524E-04
174.00	4.217952E-02	4.330604E-02	-4.149016E-02	-4.382557E-04
176.00	4.325497E-02	4.405424E-02	-4.294004E-02	-3.591159E-04
178.00	4.420900E-02	4.454470E-02	-4.423009E-02	-2.177574E-04
180.00	4.476137E-02	4.476137E-02	-4.476137E-02	-1.985006E-17

TABLE D17. NORMALIZED PHASE MATRIX FOR TYPE C AEROSOLS, MODEL 800, λ=0.45μ

M=1.55-0.01I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	2.140902E+00	2.140902E+00	2.140902E+00	-1.784588E-15
.10	2.109210E+00	2.109219E+00	2.109215E+00	-1.578714E-04
.20	2.023735E+00	2.023736E+00	2.023721E+00	-5.635206E-04
.30	1.907739E+00	1.907663E+00	1.907630E+00	-1.062518E-03
.40	1.786777E+00	1.786871E+00	1.786822E+00	-1.516669E-03
.50	1.677436E+00	1.677614E+00	1.677551E+00	-1.871152E-03
.60	1.585497E+00	1.585637E+00	1.585562E+00	-2.143342E-03
.70	1.508647E+00	1.509062E+00	1.508917E+00	-2.368612E-03
.80	1.443060E+00	1.443856E+00	1.442761E+00	-2.559888E-03
.90	1.387377E+00	1.387557E+00	1.387455E+00	-2.716231E-03
1.00	1.338627E+00	1.338814E+00	1.338706E+00	-2.835939E-03
1.10	1.296516E+00	1.296706E+00	1.296595E+00	-2.926742E-03
1.20	1.260116E+00	1.260210E+00	1.260093E+00	-2.998282E-03
1.30	1.228155E+00	1.228356E+00	1.228231E+00	-3.055486E-03
1.40	1.200288E+00	1.200462E+00	1.200281E+00	-3.102240E-03
1.50	1.175623E+00	1.175815E+00	1.175693E+00	-3.141097E-03
1.60	1.153693E+00	1.154063E+00	1.153960E+00	-3.176936E-03
1.70	1.134542E+00	1.134731E+00	1.134606E+00	-3.212484E-03
1.80	1.117187E+00	1.117373E+00	1.117248E+00	-3.248467E-03
1.90	1.101540E+00	1.101727E+00	1.101597E+00	-3.285384E-03
2.00	1.087366E+00	1.087541E+00	1.087415E+00	-3.324259E-03
3.00	9.935563E-01	9.937141E-01	9.935788E-01	-3.844409E-03
4.00	9.405766E-01	9.407110E-01	9.405643E-01	-4.587853E-03
5.00	9.030833E-01	9.031921E-01	9.030303E-01	-5.520855E-03
6.00	8.725852E-01	8.726705E-01	8.724660E-01	-6.635117E-03
7.00	8.453431E-01	8.454059E-01	8.451676E-01	-7.906232E-03
8.00	8.196131E-01	8.196676E-01	8.193974E-01	-9.296832E-03
9.00	7.945855E-01	7.946132E-01	7.942941E-01	-1.077491E-02
10.00	7.695353E-01	7.698336E-01	7.694483E-01	-1.231275E-02
11.00	7.451232E-01	7.450955E-01	7.446604E-01	-1.388321E-02
12.00	7.203917E-01	7.203216E-01	7.197793E-01	-1.546140E-02
13.00	6.955994E-01	6.954796E-01	6.948472E-01	-1.702519E-02
14.00	6.707773E-01	6.705992E-01	6.698693E-01	-1.855437E-02
15.00	6.459742E-01	6.457269E-01	6.448960E-01	-2.003044E-02
16.00	6.212552E-01	6.209363E-01	6.199924E-01	-2.143068E-02
17.00	5.966917E-01	5.962809E-01	5.952328E-01	-2.275868E-02
18.00	5.723576E-01	5.718550E-01	5.706924E-01	-2.398457E-02
19.00	5.483256E-01	5.477286E-01	5.464466E-01	-2.510500E-02
20.00	5.246646E-01	5.239733E-01	5.225664E-01	-2.611268E-02
22.00	4.787164E-01	4.778368E-01	4.761620E-01	-2.776945E-02
24.00	4.349476E-01	4.339036E-01	4.319386E-01	-2.893160E-02
26.00	3.937251E-01	3.925242E-01	3.902520E-01	-2.960073E-02
28.00	3.552924E-01	3.539400E-01	3.513528E-01	-2.979873E-02
30.00	3.197946E-01	3.182912E-01	3.153925E-01	-2.956269E-02
32.00	2.872887E-01	2.856275E-01	2.824325E-01	-2.894144E-02
34.00	2.577502E-01	2.559169E-01	2.524539E-01	-2.799286E-02
36.00	2.310911E-01	2.290699E-01	2.253724E-01	-2.678036E-02
38.00	2.071740E-01	2.049373E-01	2.010531E-01	-2.536083E-02
40.00	1.856247E-01	1.833444E-01	1.793241E-01	-2.382119E-02
42.00	1.665439E-01	1.640935E-01	1.599880E-01	-2.219522E-02
44.00	1.500166E-01	1.469767E-01	1.428333E-01	-2.053979E-02
46.00	1.351325E-01	1.317851E-01	1.276457E-01	-1.889526E-02
48.00	1.219733E-01	1.183158E-01	1.142152E-01	-1.729432E-02
50.00	1.103396E-01	1.063772E-01	1.023421E-01	-1.576188E-02
52.00	1.000437E-01	9.579389E-02	9.184168E-02	-1.431463E-02
54.00	9.092313E-02	8.640629E-02	8.254532E-02	-1.296348E-02
56.00	8.282122E-02	7.807138E-02	7.430126E-02	-1.171253E-02
58.00	7.560789E-02	7.066206E-02	6.697519E-02	-1.056074E-02
60.00	6.915949E-02	6.406754E-02	6.045102E-02	-9.503829E-03
62.00	6.340601E-02	5.819226E-02	5.462099E-02	-8.535777E-03
64.00	5.823079E-02	5.296339E-02	4.942292E-02	-7.649344E-03
66.00	5.359399E-02	4.827961E-02	4.475879E-02	-6.836109E-03
68.00	4.946048E-02	4.410592E-02	4.057519E-02	-6.097422E-03
70.00	4.576197E-02	4.037893E-02	3.681193E-02	-5.395367E-03
72.00	4.225546E-02	3.706006E-02	3.342667E-02	-4.752391E-03
74.00	3.912000E-02	3.407063E-02	3.036295E-02	-4.154076E-03
76.00	3.633099E-02	3.142187E-02	2.763997E-02	-3.593309E-03
78.00	3.381031E-02	2.905168E-02	2.516931E-02	-3.066784E-03
80.00	3.153117E-02	2.693669E-02	2.294406E-02	-2.571910E-03
82.00	2.947058E-02	2.505146E-02	2.093973E-02	-2.106795E-03
84.00	2.760638E-02	2.337106E-02	1.913352E-02	-1.669791E-03
86.00	2.591895E-02	2.197567E-02	1.750431E-02	-1.259526E-03
88.00	2.433045E-02	2.054395E-02	1.603203E-02	-8.749351E-04
90.00	2.300427E-02	1.935953E-02	1.470197E-02	-5.149521E-04
92.00	2.174501E-02	1.830782E-02	1.349608E-02	-1.765916E-04
94.00	2.059807E-02	1.737324E-02	1.240132E-02	1.384963E-04
96.00	1.955270E-02	1.635186E-02	1.140141E-02	4.267851E-04
98.00	1.859603E-02	1.582522E-02	1.049754E-02	7.130419E-04
100.00	1.771595E-02	1.519607E-02	9.667999E-03	9.664889E-04
102.00	1.692563E-02	1.465132E-02	8.908258E-03	1.203829E-03
104.00	1.617444E-02	1.418647E-02	8.211296E-03	1.436008E-03
106.00	1.549714E-02	1.379662E-02	7.571657E-03	1.659713E-03
108.00	1.487021E-02	1.348016E-02	6.985011E-03	1.677265E-03
110.00	1.431431E-02	1.324715E-02	6.447666E-03	2.090964E-03
112.00	1.380207E-02	1.306095E-02	5.956387E-03	2.301619E-03
114.00	1.333025E-02	1.298671E-02	5.507579E-03	2.511337E-03
116.00	1.291923E-02	1.290309E-02	5.098663E-03	2.720103E-03
118.00	1.254073E-02	1.308844E-02	4.724530E-03	2.927295E-03
120.00	1.219766E-02	1.312107E-02	4.380577E-03	3.131408E-03
122.00	1.153394E-02	1.329883E-02	4.061138E-03	3.329683E-03
124.00	1.153262E-02	1.353890E-02	3.759428E-03	3.519079E-03
126.00	1.131575E-02	1.383733E-02	3.467411E-03	3.694465E-03
128.00	1.109453E-02	1.410919E-02	3.175695E-03	3.850863E-03
130.00	1.077342E-02	1.458799E-02	2.873839E-03	3.982424E-03
132.00	1.049273E-02	1.502576E-02	2.550914E-03	4.082765E-03
134.00	1.019761E-02	1.549349E-02	2.194969E-03	4.145280E-03
136.00	9.604356E-03	1.598091E-02	1.794416E-03	4.163335E-03
138.00	9.552621E-03	1.647686E-02	1.337724E-03	4.130666E-03
140.00	9.204754E-03	1.696979E-02	8.139161E-04	4.041821E-03
142.00	8.840934E-03	1.744779E-02	2.134467E-04	3.892613E-03
144.00	8.497238E-03	1.789292E-02	-4.717675E-04	3.680952E-03
146.00	8.166714E-03	1.831307E-02	-1.247497E-03	3.405022E-03
148.00	7.878669E-03	1.867862E-02	-2.117140E-03	3.067583E-03
150.00	7.150637E-03	1.898779E-02	-3.081137E-03	2.672396E-03
152.00	7.535139E-03	1.923269E-02	-4.137690E-03	2.226338E-03
154.00	7.538135E-03	1.943832E-02	-5.279738E-03	1.739402E-03
156.00	7.697696E-03	1.951280E-02	-6.501881E-03	1.225428E-03
158.00	8.042796E-03	1.954871E-02	-7.794796E-03	7.027233E-04
160.00	8.600116E-03	1.952520E-02	-9.147842E-03	1.949514E-04
162.00	9.352706E-03	1.946325E-02	-1.054769E-02	-2.670812E-04
164.00	1.043731E-02	1.940153E-02	-1.197969E-02	-6.435617E-04
166.00	1.173370E-02	1.939214E-02	-1.343074E-02	-8.942813E-04
168.00	1.325003E-02	1.947609E-02	-1.488704E-02	-9.591504E-04
170.00	1.491673E-02	1.966967E-02	-1.632178E-02	-9.629243E-04
172.00	1.602676E-02	1.995602E-02	-1.769190E-02	-6.107731E-04
174.00	1.625094E-02	2.033170E-02	-1.893674E-02	-5.638678E-04
176.00	1.962646E-02	2.063345E-02	-1.997856E-02	-3.332975E-04
178.00	2.059515E-02	2.087759E-02	-2.073956E-02	-1.107724E-04
180.00	2.097640E-02	2.097640E-02	-2.097640E-02	-4.339968E-18

TABLE 31B. NORMALIZED PHASE MATRIX FOR TYPE C AEROSOLS, MODEL 800, λ=0.55μ

N=1.55-0.01I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.806342E+00	1.806342E+00	1.806342E+00	-1.630351E-15
.10	1.780052E+00	1.780359E+00	1.780156E+00	-1.109329E-04
.20	1.736976E+00	1.737602E+00	1.736989E+00	-4.106502E-04
.30	1.663032E+00	1.66[illegible]085E+00	1.663058E+00	-8.167480E-04
.40	1.578650E+00	1.578730E+00	1.578689E+00	-1.237080E-03
.50	1.494785E+00	1.494896E+00	1.494835E+00	-1.607423E-03
.60	1.418354E+00	1.418480E+00	1.418412E+00	-1.906640E-03
.70	1.351649E+00	1.351991E+00	1.351914E+00	-2.146151E-03
.80	1.294609E+00	1.294823E+00	1.294737E+00	-2.347354E-03
.90	1.245006E+00	1.245163E+00	1.245071E+00	-2.523650E-03
1.00	1.201197E+00	1.201367E+00	1.201269E+00	-2.677193E-03
1.10	1.162256E+00	1.162429E+00	1.162327E+00	-2.805186E-03
1.20	1.127634E+00	1.127808E+00	1.127703E+00	-2.907413E-03
1.30	1.096911E+00	1.097032E+00	1.096976E+00	-2.988165E-03
1.40	1.069616E+00	1.069763E+00	1.069677E+00	-3.053364E-03
1.50	1.045261E+00	1.045420E+00	1.045315E+00	-3.107290E-03
1.60	1.023427E+00	1.023576E+00	1.023475E+00	-3.152010E-03
1.70	1.003799E+00	1.003940E+00	1.003840E+00	-3.188971E-03
1.80	9.861213E-01	9.862510E-01	9.861542E-01	-3.220344E-03
1.90	9.701555E-01	9.702730E-01	9.701801E-01	-3.248779E-03
2.00	9.556683E-01	9.557737E-01	9.556643E-01	-3.276312E-03
3.00	8.669431E-01	8.6[illegible]E-01	8.660586E-01	-3.596873E-03
4.00	8.086950E-01	8.084324E-01	8.084845E-01	-4.061598E-03
5.00	7.736950E-01	7.731760E-01	7.733311E-01	-4.660937E-03
6.00	7.467532E-01	7.459322E-01	7.462091E-01	-5.377622E-03
7.00	7.240461E-01	7.228864E-01	7.232944E-01	-6.208485E-03
8.00	7.036007E-01	7.020555E-01	7.026197E-01	-7.139743E-03
9.00	6.843739E-01	6.824679E-01	6.831348E-01	-8.149301E-03
10.00	6.658130E-01	6.633641E-01	6.642694E-01	-9.216329E-03
11.00	6.476112E-01	6.446923E-01	6.457782E-01	-1.032542E-02
12.00	6.295881E-01	6.261437E-01	6.274224E-01	-1.146286E-02
13.00	6.116415E-01	6.076435E-01	6.091218E-01	-1.261473E-02
14.00	5.937226E-01	5.891470E-01	5.908249E-01	-1.376763E-02
15.00	5.758196E-01	5.706429E-01	5.725337E-01	-1.490946E-02
16.00	5.579253E-01	5.521417E-01	5.542416E-01	-1.602937E-02
17.00	5.400702E-01	5.336676E-01	5.359755E-01	-1.711781E-02
18.00	5.222777E-01	5.152533E-01	5.177055E-01	-1.816628E-02
19.00	5.045032E-01	4.969362E-01	4.996467E-[illegible]	-1.916726E-02
20.00	4.870125E-01	4.787570E-01	4.816564E-01	-2.011416E-02
22.00	4.524120E-01	4.429763E-01	4.[illegible]62167E-01	-2.182369E-02
24.00	4.187576E-01	4.082249E-01	4.117424E-01	-2.326027E-02
26.00	3.862991E-01	3.747781E-01	3.784967E-01	-2.440151E-02
28.00	3.552465E-01	3.428636E-01	3.466997E-01	-2.523618E-02
30.00	3.257576E-01	3.126564E-01	3.165244E-01	-2.576378E-02
32.00	2.979560E-01	2.842806E-01	2.880978E-01	-2.599236E-02
34.00	2.719256E-01	2.578133E-01	2.615037E-01	-2.593799E-02
36.00	2.477031E-01	2.332877E-01	2.367851E-01	-2.562303E-02
38.00	2.252957E-01	2.106962E-01	2.139460E-01	-2.507421E-02
40.00	2.046060E-01	1.900074E-01	1.929675E-01	-2.432191E-02
42.00	1.856174E-01	1.711513E-01	1.737919E-01	-2.339836E-02
44.00	1.680291E-01	1.540455E-01	1.563469E-01	-2.233653E-02
46.00	1.530352E-01	1.385854E-01	1.405406E-01	-2.116915E-02
48.00	1.384392E-01	1.246717E-01	1.262887E-01	-1.992737E-02
50.00	1.262358E-01	1.121752E-01	1.134590E-01	-1.863970E-02
52.00	1.145165E-01	1.009419E-01	1.019406E-01	-1.733165E-02
54.00	1.045725E-01	9.097566E-02	9.163857E-02	-1.602526E-02
56.00	9.534657E-02	8.204302E-02	8.262544E-02	-1.473961E-02
58.00	8.718551E-02	7.407911E-02	7.415593E-02	-1.349008E-02

SCATTERING ANGLE	I1	I2	I3	I4
60.00	7.984090E-02	6.691133E-02	6.685263E-02	-1.228305E-02
62.00	7.327008E-02	6.065788E-02	6.029914E-02	-1.114518E-02
64.00	6.738743E-02	5.502376E-02	5.444799E-02	-1.006416E-02
66.00	6.211471E-02	5.000206E-02	4.921949E-02	-9.049614E-03
68.00	5.738120E-02	4.552446E-02	4.454198E-02	-8.102935E-03
70.00	5.312418E-02	4.153081E-02	4.035171E-02	-7.223983E-03
72.00	4.926630E-02	3.796761E-02	3.659190E-02	-6.409712E-03
74.00	4.582357E-02	3.476731E-02	3.321188E-02	-5.658039E-03
76.00	4.260661E-02	3.194818E-02	3.016686E-02	-4.966546E-03
78.00	3.953529E-02	2.941366E-02	2.741788E-02	-4.328637E-03
80.00	3.724628E-02	2.715161E-02	2.493121E-02	-3.739932E-03
82.00	3.483264E-02	2.513464E-02	2.267765E-02	-3.199951E-03
84.00	3.272585E-02	2.333725E-02	2.063218E-02	-2.690439E-03
86.00	3.075034E-02	2.174648E-02	1.877342E-02	-2.219673E-03
88.00	2.894505E-02	2.032507E-02	1.706270E-02	-1.779041E-03
90.00	2.725263E-02	1.907456E-02	1.554341E-02	-1.364837E-03
92.00	2.577970E-02	1.791450E-02	1.414105E-02	-9.734415E-04
94.00	2.439467E-02	1.701221E-02	1.286308E-02	[illegible]
96.00	2.312749E-02	1.617612E-02	1.16[illegible]33E-02	-2.471084E-04
98.00	2.130082E-02	1.545057E-02	1.063673E-02	5.138233E-05
100.00	2.031007E-02	1.454479E-02	9.669333E-03	4.109784E-04
102.00	1.994263E-02	1.433235E-02	8.786331E-03	7.296358E-04
104.00	1.935675E-02	1.391153E-02	7.979926E-03	1.028642E-03
106.00	1.824963E-02	1.357555E-02	7.241622E-03	1.315437E-03
108.00	1.730099E-02	1.331825E-02	6.562779E-03	1.590170E-03
110.00	1.682351E-02	1.313398E-02	5.936239E-03	1.852542E-03
112.00	1.619157E-02	1.301749E-02	5.354119E-03	2.102109E-03
114.00	1.563379E-02	1.296395E-02	4.806865E-03	2.338097E-03
116.00	1.503303E-02	1.296700E-02	4.291961E-03	2.559489E-03
118.00	1.453257E-02	1.302295E-02	3.796029E-03	2.765275E-03
120.00	1.403059E-02	1.312683E-02	3.313181E-03	2.954352E-03
122.00	1.355997E-02	1.327325E-02	2.830265E-03	3.125264E-03
124.00	1.309636E-02	1.345604E-02	2.358170E-03	3.276258E-03
126.00	1.264338E-02	1.367602E-02	1.872161E-03	3.405473E-03
128.00	1.220798E-02	1.392187E-02	1.371740E-03	3.510903E-03
130.00	1.177665E-02	1.419031E-02	8.512[illegible]3E-04	3.590421E-03
132.00	1.135571E-02	1.447642E-02	3.053463E-04	3.641954E-03
134.00	1.094505E-02	1.477557E-02	-2.703105E-04	3.663508E-03
136.00	1.055626E-02	1.508340E-02	-8.792850E-04	3.653298E-03
138.00	1.019212E-02	1.539538E-02	-1.524219E-03	3.609691E-03
140.00	9.657258E-03	1.570073E-02	-2.206441E-03	3.531362E-03
142.00	9.502273E-03	1.601253E-02	-2.926014E-03	3.416830E-03
144.00	9.210015E-03	1.630795E-02	-3.664751E-03	3.265325E-03
146.00	9.130511E-03	1.658824E-02	-4.478800E-03	3.076314E-03
148.00	9.010309E-03	1.684850E-02	-5.300746E-03	2.849839E-03
150.00	8.970602E-03	1.706351E-02	-6.160649E-03	2.586607E-03
152.00	9.033500E-03	1.726753E-02	-7.053910E-03	2.288077E-03
154.00	9.160032E-03	1.745521E-02	-7.967320E-03	1.957152E-03
156.00	9.453007E-03	1.758243E-02	-8.902965E-03	1.599230E-03
158.00	9.831765E-03	1.766741E-02	-9.857151E-03	1.223320E-03
160.00	1.035026E-02	1.771236E-02	-1.082566E-02	8.415711E-04
162.00	1.099992E-02	1.772691E-02	-1.180379E-02	4.738033E-04
164.00	1.179298E-02	1.773547E-02	-1.278473E-02	1.470392E-04
166.00	1.272943E-02	1.777616E-02	-1.376726E-02	-1.656793E-04
168.00	1.370833E-02	1.787361E-02	-1.475165E-02	-2.698951E-04
170.00	1.492646E-02	1.805229E-02	-1.572665E-02	-3.462374E-04
172.00	1.605147E-02	1.828733E-02	-1.656924E-02	-3.400874E-04
174.00	1.711293E-02	1.855423E-02	-1.756560E-02	-2.872632E-04
176.00	1.810639E-02	1.880493E-02	-1.830462E-02	-1.505103E-04
178.00	1.878420E-02	1.890056E-02	-1.885650E-02	-7.404325E-05
180.00	1.900563E-02	1.900563E-02	-1.900563E-02	-7.741651E-18

TABLE D19. NORMALIZED PHASE MATRIX FOR TYPE C AEROSOLS, MODEL 800, λ=0.70μ

M=1.55-0.01I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	[illegible]	1.563192E+00	1.563192E+00	-1.211638E-15
.10	[illegible]	1.552837E+00	1.552834E+00	-7.931876E-05
.20	[illegible]	1.523126E+00	1.523116E+00	-3.622353E-04
.30	[illegible]	1.477768E+00	1.477763E+00	-6.286761E-04
.40	[illegible]	1.422641E+00	1.422604E+00	-1.005784E-03
.50	[illegible]	1.351448E+00	1.361397E+00	-1.383611E-03
.60	[illegible]	1.309649E+00	1.306764E+00	-1.726692E-03
.70	[illegible]	1.245063E+00	1.243567E+00	-2.019996E-03
.80	[illegible]	1.191692E+00	1.191607E+00	-2.264254E-03
.90	[illegible]	1.145357E+00	1.145263E+00	-2.470627E-03
1.00	[illegible]	1.104192E+00	1.104693E+00	-2.650493E-03
[illegible]	[illegible]	1.067370E+00	1.067273E+00	-2.812221E-03
[illegible]	[illegible]	1.034126E+00	1.034618E+00	-2.957913E-03
[illegible]	[illegible]	1.003860E+00	1.003755E+00	-3.086394E-03
[illegible]	[illegible]	9.762484E-01	9.761363E-01	-3.196093E-03
[illegible]	[illegible]	9.516565E-01	9.509446E-01	-3.287200E-03
[illegible]	[illegible]	9.291086E-01	9.279983E-01	-3.362019E-03
[illegible]	[illegible]	9.072055E-01	9.076980E-01	-3.423926E-03
[illegible]	[illegible]	8.891282E-01	8.880246E-01	-3.475993E-03
[illegible]	[illegible]	8.730633E-01	8.765650E-01	-3.520224E-03
[illegible]	[illegible]	8.546316E-01	8.545369E-01	-3.557671E-03
[illegible]	[illegible]	7.477334E-01	7.477325E-01	-3.775852E-03
[illegible]	[illegible]	6.964099E-01	6.965416E-01	-4.020350E-03
[illegible]	[illegible]	6.531762E-01	6.534744E-01	-4.347691E-03
[illegible]	[illegible]	6.257564E-01	6.262541E-01	-4.750713E-03
[illegible]	[illegible]	6.037643E-01	6.044539E-01	-5.215491E-03
[illegible]	[illegible]	5.850133E-01	5.860654E-01	-5.741570E-03
[illegible]	[illegible]	5.652370E-01	5.695199E-01	-6.326166E-03
[illegible]	[illegible]	5.520756E-01	5.542754E-01	-6.961896E-03
[illegible]	[illegible]	5.370665E-01	5.396070E-01	-7.637075E-03
[illegible]	[illegible]	5.235367E-01	5.258415E-01	-8.340194E-03
[illegible]	[illegible]	5.092050E-01	5.122093E-01	-9.062649E-03
[illegible]	[illegible]	4.957120E-01	4.986647E-01	-9.797354E-03
[illegible]	[illegible]	4.820433E-01	4.855560E-01	-1.053762E-02
[illegible]	[illegible]	4.684734E-01	4.724205E-01	-1.127718E-02
[illegible]	[illegible]	4.549818E-01	4.593750E-01	-1.201348E-02
[illegible]	[illegible]	4.415015E-01	4.464095E-01	-1.273274E-02
[illegible]	[illegible]	4.282145E-01	4.335226E-01	-1.343961E-02
[illegible]	[illegible]	4.149493E-01	4.207188E-01	-1.412715E-02
[illegible]	[illegible]	3.887274E-01	3.953953E-01	-1.543050E-02
[illegible]	[illegible]	3.629301E-01	3.703435E-01	-1.661824E-02
[illegible]	[illegible]	3.379049E-01	3.462668E-01	-1.757093E-02
[illegible]	[illegible]	3.135957E-01	3.220022E-01	-1.857034E-02
[illegible]	[illegible]	2.902636E-01	2.998953E-01	-1.931728E-02
[illegible]	[illegible]	2.677066E-01	2.779902E-01	-1.989604E-02
[illegible]	[illegible]	2.464248E-01	2.570772E-01	-2.030979E-02
[illegible]	[illegible]	2.202146E-01	2.371321E-01	-2.056176E-02
[illegible]	[illegible]	2.071730E-01	2.162576E-01	-2.065734E-02
[illegible]	[illegible]	1.893207E-01	2.004551E-01	-2.060427E-02
[illegible]	[illegible]	1.726509E-01	1.837327E-01	-2.041196E-02
[illegible]	[illegible]	1.571779E-01	1.580600E-01	-2.009379E-02
[illegible]	[illegible]	1.426042E-01	1.535624E-01	-1.965188E-02
[illegible]	[illegible]	1.290531E-01	1.399593E-01	-1.910777E-02
[illegible]	[illegible]	1.175311E-01	1.274145E-01	-1.847196E-02
[illegible]	[illegible]	1.034388E-01	1.153063E-01	-1.775782E-02
[illegible]	[illegible]	9.532171E-02	1.051187E-01	-1.697349E-02
[illegible]	[illegible]	8.712244E-02	9.541284E-02	-1.614001E-02
[illegible]	[illegible]	7.376190E-02	8.466332E-02	-1.527419E-02

SCATTERING ANGLE	I1	I2	I3	I4
60.00	9.916524E-02	7.124022E-02	7.828940E-02	-1.437251E-02
62.00	9.105477E-02	6.443689E-02	7.083947E-02	-1.349290E-02
64.00	8.470434E-02	5.831305E-02	6.406177E-02	-1.252469E-02
66.00	7.840926E-02	5.231216E-02	5.790552E-02	-1.159792E-02
68.00	7.272587E-02	4.788035E-02	5.232151E-02	-1.068019E-02
70.00	6.779152E-02	4.346878E-02	4.720231E-02	-9.778300E-03
72.00	6.272542E-02	3.952361E-02	4.268276E-02	-8.898013E-03
74.00	5.838636E-02	3.600670E-02	3.853983E-02	-8.044202E-03
76.00	5.444270E-02	3.287408E-02	3.479288E-02	-7.220780E-03
78.00	5.083329E-02	3.000838E-02	3.140419E-02	-6.430824E-03
80.00	4.758726E-02	2.761542E-02	2.833682E-02	-5.675652E-03
82.00	4.461405E-02	2.542420E-02	2.556457E-02	-4.957800E-03
84.00	4.194540E-02	2.348649E-02	2.305174E-02	-4.275343E-03
86.00	3.943517E-02	2.177670E-02	2.077289E-02	-3.630900E-03
88.00	3.717606E-02	2.027185E-02	1.870257E-02	-3.023268E-03
90.00	3.511335E-02	1.895168E-02	1.681836E-02	-2.451511E-03
92.00	3.322673E-02	1.779823E-02	1.509970E-02	-1.914292E-03
94.00	3.148125E-02	1.679526E-02	1.352819E-02	-1.410008E-03
96.00	2.987925E-02	1.592815E-02	1.208701E-02	-9.373606E-04
98.00	2.840013E-02	1.518376E-02	1.076091E-02	-4.947941E-04
100.00	2.703601E-02	1.455043E-02	9.535897E-03	-8.086633E-05
102.00	2.577093E-02	1.401787E-02	8.399525E-03	3.060213E-04
104.00	2.457431E-02	1.357679E-02	7.340508E-03	6.673557E-04
106.00	2.348953E-02	1.321869E-02	6.348652E-03	1.004402E-03
108.00	2.243437E-02	1.293566E-02	5.414787E-03	1.318139E-03
110.00	2.146408E-02	1.272146E-02	4.530538E-03	1.609307E-03
112.00	2.051422E-02	1.256928E-02	3.688379E-03	1.878570E-03
114.00	1.969203E-02	1.247406E-02	2.881667E-03	2.126922E-03
116.00	1.886234E-02	1.243067E-02	2.104460E-03	2.353565E-03
118.00	1.811603E-02	1.243454E-02	1.351373E-03	2.559645E-03
120.00	1.739976E-02	1.248156E-02	6.176237E-04	2.745287E-03
122.00	1.672430E-02	1.256804E-02	-1.008093E-04	2.909665E-03
124.00	1.609174E-02	1.259059E-02	-8.073035E-04	3.052597E-03
126.00	1.550224E-02	1.286604E-02	-1.504741E-03	3.173916E-03
128.00	1.490659E-02	1.303138E-02	-2.195523E-03	3.271664E-03
130.00	1.445500E-02	1.324365E-02	-2.881004E-03	3.346131E-03
132.00	1.399947E-02	1.348012E-02	-3.564540E-03	3.395926E-03
134.00	1.359120E-02	1.377814E-02	-4.245587E-03	3.420330E-03
136.00	1.323204E-02	1.408494E-02	-4.925665E-03	3.417415E-03
138.00	1.292376E-02	1.443765E-02	-5.605398E-03	3.387078E-03
140.00	1.266798E-02	1.481333E-02	-6.285146E-03	3.328044E-03
142.00	1.246026E-02	1.492802E-02	-6.965126E-03	3.239442E-03
144.00	1.232014E-02	1.525053E-02	-7.645508E-03	3.120557E-03
146.00	1.223110E-02	1.574242E-02	-8.326469E-03	2.970877E-03
148.00	1.221004E-02	1.589528E-02	-9.008252E-03	2.790274E-03
150.00	1.223072E-02	1.620872E-02	-9.691200E-03	2.579271E-03
152.00	1.232256E-02	1.650956E-02	-1.037574E-02	2.339124E-03
154.00	1.247630E-02	1.679239E-02	-1.106220E-02	2.071730E-03
156.00	1.271303E-02	1.705125E-02	-1.175088E-02	1.779764E-03
158.00	1.299690E-02	1.727981E-02	-1.244226E-02	1.467239E-03
160.00	1.331322E-02	1.747306E-02	-1.313664E-02	1.140686E-03
162.00	1.379422E-02	1.753164E-02	-1.383305E-02	8.121322E-04
164.00	1.432402E-02	1.777252E-02	-1.453002E-02	5.044402E-04
166.00	1.493491E-02	1.792831E-02	-1.523299E-02	2.462202E-04
168.00	1.560274E-02	1.812461E-02	-1.595046E-02	5.223989E-05
170.00	1.643950E-02	1.830632E-02	-1.668144E-02	-7.711448E-05
172.00	1.723040E-02	1.844497E-02	-1.741356E-02	-1.476918E-04
174.00	1.800813E-02	1.893277E-02	-1.812414E-02	-1.675704E-04
176.00	1.859174E-02	1.919046E-02	-1.877011E-02	-1.394650E-04
178.00	1.921707E-02	1.937566E-02	-1.926493E-02	-6.430647E-05
180.00	1.945373E-02	1.945373E-02	-1.945373E-02	-7.397152E-18

TABLE 20C. NORMALIZED PHASE MATRIX FOR TYPE C AEROSOLS, MODEL 800; λ=1.60μ

N=1.55-0.01I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.627313E+00	1.627313E+00	1.627313E+00	-1.102419E-15
.10	1.625606E+00	1.624600E+00	1.624600E+00	-4.380773E-05
.20	1.616605E+00	1.616603E+00	1.616474E+00	-1.735600E-04
.30	1.600056E+00	1.600097E+00	1.600076E+00	-3.863595E-04
.40	1.586582E+00	1.586653E+00	1.586617E+00	-6.683950E-04
.50	1.565872E+00	1.564900E+00	1.564925E+00	-1.015960E-03
.60	1.539445E+00	1.539595E+00	1.539519E+00	-1.413587E-03
.70	1.510001E+00	1.511076E+00	1.510976E+00	-1.869793E-03
.80	1.479798E+00	1.480040E+00	1.479915E+00	-2.310030E-03
.90	1.446823E+00	1.447114E+00	1.446963E+00	-2.783960E-03
1.00	1.412572E+00	1.412911E+00	1.412734E+00	-3.257510E-03
1.10	1.377626E+00	1.378009E+00	1.377809E+00	-3.721511E-03
1.20	1.342581E+00	1.342930E+00	1.342761E+00	-4.167935E-03
1.30	1.307661E+00	1.308129E+00	1.307876E+00	-4.590957E-03
1.40	1.273400E+00	1.273984E+00	1.273700E+00	-4.986921E-03
1.50	1.240256E+00	1.240792E+00	1.240495E+00	-5.354197E-03
1.60	1.208205E+00	1.208769E+00	1.208453E+00	-5.692980E-03
1.70	1.177460E+00	1.178055E+00	1.177722E+00	-6.004512E-03
1.80	1.148110E+00	1.148720E+00	1.148377E+00	-6.291471E-03
1.90	1.120173E+00	1.120797E+00	1.120434E+00	-6.556737E-03
2.00	1.093605E+00	1.094242E+00	1.093866E+00	-6.803418E-03
3.00	8.865882E-01	8.872196E-01	8.867721E-01	-8.631744E-03
4.00	7.490344E-01	7.496522E-01	7.490304E-01	-9.478595E-03
5.00	6.553661E-01	6.559641E-01	6.550261E-01	-9.739992E-03
6.00	5.849131E-01	5.884729E-01	5.883040E-01	-9.776094E-03
7.00	5.395514E-01	5.385662E-01	5.389111E-01	-9.757763E-03
8.00	5.011472E-01	4.995597E-01	4.997846E-01	-9.733028E-03
9.00	4.701379E-01	4.670090E-01	4.683515E-01	-9.707220E-03
10.00	4.443620E-01	4.413944E-01	4.421287E-01	-9.679792E-03
11.00	4.224290E-01	4.186026E-01	4.197027E-01	-9.652415E-03
12.00	4.033892E-01	3.988044E-01	4.001483E-01	-9.622129E-03
13.00	3.865001E-01	3.811026E-01	3.828821E-01	-9.585601E-03
14.00	3.715660E-01	3.651234E-01	3.672123E-01	-9.540352E-03
15.00	3.579957E-01	3.505330E-01	3.530477E-01	-9.486899E-03
16.00	3.456165E-01	3.370775E-01	3.400524E-01	-9.428194E-03
17.00	3.342270E-01	3.243550E-01	3.280269E-01	-9.366835E-03
18.00	3.236667E-01	3.120120E-01	3.168121E-01	-9.304574E-03
19.00	3.138097E-01	3.017243E-01	3.062020E-01	-9.242742E-03
20.00	3.045552E-01	2.911970E-01	2.963306E-01	-9.182155E-03
22.00	2.875452E-01	2.715366E-01	2.778963E-01	-9.063057E-03
24.00	2.721597E-01	2.533049E-01	2.610075E-01	-8.942666E-03
26.00	2.580935E-01	2.364641E-01	2.453609E-01	-8.808980E-03
28.00	2.451422E-01	2.205936E-01	2.307022E-01	-8.658370E-03
30.00	2.331520E-01	2.056440E-01	2.171032E-01	-8.490594E-03
32.00	2.220657E-01	1.915232E-01	2.042228E-01	-8.305965E-03
34.00	2.116864E-01	1.781505E-01	1.920577E-01	-8.105998E-03
36.00	2.018792E-01	1.654974E-01	1.805417E-01	-7.888596E-03
38.00	1.927611E-01	1.534992E-01	1.696225E-01	-7.657267E-03
40.00	1.841997E-01	1.421314E-01	1.592563E-01	-7.412536E-03
42.00	1.761400E-01	1.313667E-01	1.494052E-01	-7.155998E-03
44.00	1.685680E-01	1.211019E-01	1.400361E-01	-6.889105E-03
46.00	1.614214E-01	1.115500E-01	1.311260E-01	-6.613617E-03
48.00	1.546172E-01	1.024725E-01	1.226306E-01	-6.330693E-03
50.00	1.483069E-01	9.391296E-02	1.145469E-01	-6.041694E-03
52.00	1.422849E-01	8.586246E-02	1.068420E-01	-5.747803E-03
54.00	1.365879E-01	7.830590E-02	9.950250E-02	-5.450047E-03
56.00	1.311944E-01	7.122029E-02	9.250031E-02	-5.149278E-03
58.00	1.260869E-01	6.461400E-02	8.584274E-02	-4.846323E-03

SCATTERING ANGLE	I1	I2	I3	I4
60.00	1.212419E-01	5.845197E-02	7.949034E-02	-4.542135E-03
62.00	1.166467E-01	5.272203E-02	7.343777E-02	-4.237090E-03
64.00	1.122907E-01	4.741549E-02	6.766673E-02	-3.933791E-03
66.00	1.081538E-01	4.251568E-02	6.217359E-02	-3.631453E-03
68.00	1.042254E-01	3.800832E-02	5.693932E-02	-3.331495E-03
70.00	1.004937E-01	3.387902E-02	5.195493E-02	-3.034779E-03
72.00	9.694708E-02	3.011481E-02	4.720822E-02	-2.742237E-03
74.00	9.357691E-02	2.669933E-02	4.268981E-02	-2.454843E-03
76.00	9.037100E-02	2.361878E-02	3.838910E-02	-2.173444E-03
78.00	8.732290E-02	2.085981E-02	3.429640E-02	-1.898560E-03
80.00	8.442236E-02	1.840596E-02	3.040271E-02	-1.631814E-03
82.00	8.166229E-02	1.624949E-02	2.669494E-02	-1.371075E-03
84.00	7.903519E-02	1.436332E-02	2.317461E-02	-1.119377E-03
86.00	7.653427E-02	1.274987E-02	1.982727E-02	-8.763274E-04
88.00	7.415311E-02	1.137896E-02	1.664303E-02	-6.422032E-04
90.00	7.188596E-02	1.024990E-02	1.361658E-02	-4.171505E-04
92.00	6.972752E-02	9.349344E-03	1.074057E-02	-2.013244E-04
94.00	6.767270E-02	8.652265E-03	8.008223E-03	5.180444E-06
96.00	6.571063E-02	8.157826E-03	5.412641E-03	2.018934E-04
98.00	6.385405E-02	7.849454E-03	2.967966E-03	3.880649E-04
100.00	6.206244E-02	7.714976E-03	6.073294E-04	5.659507E-04
102.00	6.035612E-02	7.742592E-03	-1.614839E-03	7.332089E-04
104.00	5.879213E-02	7.920760E-03	-3.724279E-03	8.906970E-04
106.00	5.726709E-02	8.238081E-03	-5.726220E-03	1.038413E-03
108.00	5.581701E-02	8.603550E-03	-7.625987E-03	1.176308E-03
110.00	5.444128E-02	9.246648E-03	-9.426596E-03	1.304306E-03
112.00	5.313400E-02	9.917315E-03	-1.113087E-02	1.422652E-03
114.00	5.189541E-02	1.068596E-02	-1.276137E-02	1.531362E-03
116.00	5.072113E-02	1.134327E-02	-1.430039E-02	1.630783E-03
118.00	4.960972E-02	1.240026E-02	-1.575999E-02	1.721187E-03
120.00	4.855927E-02	1.345846E-02	-1.714408E-02	1.802803E-03
122.00	4.756798E-02	1.459955E-02	-1.845639E-02	1.875817E-03
124.00	4.663414E-02	1.580687E-02	-1.970049E-02	1.940397E-03
126.00	4.575613E-02	1.706067E-02	-2.087980E-02	1.996661E-03
128.00	4.493239E-02	1.837632E-02	-2.199770E-02	2.044694E-03
130.00	4.416139E-02	1.932634E-02	-2.305752E-02	2.084550E-03
132.00	4.344174E-02	2.050401E-02	-2.406251E-02	2.116275E-03
134.00	4.277215E-02	2.190546E-02	-2.501184E-02	2.139902E-03
136.00	4.215140E-02	2.322365E-02	-2.592667E-02	2.155391E-03
138.00	4.157669E-02	2.459404E-02	-2.678621E-02	2.162560E-03
140.00	4.105202E-02	2.589171E-02	-2.759787E-02	2.161306E-03
142.00	4.057305E-02	2.723189E-02	-2.837731E-02	2.150351E-03
144.00	4.013869E-02	2.836963E-02	-2.912297E-02	2.128634E-03
146.00	3.974909E-02	2.930044E-02	-2.983617E-02	2.095039E-03
148.00	3.940307E-02	3.121744E-02	-3.052942E-02	2.048340E-03
150.00	3.910106E-02	3.251231E-02	-3.120253E-02	1.977857E-03
152.00	3.884435E-02	3.377349E-02	-3.186494E-02	1.882802E-03
154.00	3.863117E-02	3.490571E-02	-3.252474E-02	1.752553E-03
156.00	3.846642E-02	3.612943E-02	-3.319139E-02	1.577181E-03
158.00	3.835560E-02	3.718052E-02	-3.387571E-02	1.346129E-03
160.00	3.831607E-02	3.811265E-02	-3.458932E-02	1.051139E-03
162.00	3.835403E-02	3.891207E-02	-3.534104E-02	6.976002E-04
164.00	3.853536E-02	3.961142E-02	-3.614110E-02	3.252399E-04
166.00	3.890637E-02	4.029270E-02	-3.703418E-02	-2.530484E-06
168.00	3.949904E-02	4.102494E-02	-3.805662E-02	-2.495612E-04
170.00	4.030927E-02	4.132770E-02	-3.923715E-02	-4.132704E-04
172.00	4.124377E-02	4.260000E-02	-4.056653E-02	-5.025582E-04
174.00	4.238034E-02	4.351369E-02	-4.199979E-02	-5.122084E-04
176.00	4.349312E-02	4.424754E-02	-4.343042E-02	-4.174928E-04
178.00	4.450052E-02	4.470122E-02	-4.457934E-02	-1.843271E-04
180.00	4.501614E-02	4.501614E-02	-4.501614E-02	-1.460220E-17

APPENDIX E.

Normalized Phase Matrices for Stratospheric Aerosols

TABLE E1. NORMALIZED PHASE MATRIX FOR STRATOSPHERIC AEROSOLS, MODEL 20, λ=0.41μ

N=1.50-0.001I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.992052E+00	1.982852E+00	1.982852E+00	-1.137071E-15
1.00	[illegible]	[illegible]	[illegible]	[illegible]
2.00	1.943874E+00	1.951274E+00	1.950868E+00	-2.694350E-03
3.00	[illegible]	[illegible]	[illegible]	[illegible]
4.00	1.854895E+00	1.860243E+00	1.857450E+00	-1.010316E-02
5.00	[illegible]	[illegible]	[illegible]	[illegible]
6.00	1.708403E+00	1.720087E+00	1.713943E+00	-2.005226E-02
7.00	[illegible]	[illegible]	[illegible]	[illegible]
8.00	1.527001E+00	1.545661E+00	1.535154E+00	-3.251267E-02
9.00	[illegible]	[illegible]	[illegible]	[illegible]
10.00	1.320507E+00	1.333549E+00	1.330075E+00	-4.296593E-02
11.00	[illegible]	[illegible]	[illegible]	[illegible]
12.00	1.126241E+00	1.159342E+00	1.138833E+00	-5.050570E-02
13.00	1.043104E+00	[illegible]	[illegible]	[illegible]
14.00	9.330703E-01	9.750108E-01	9.585485E-01	-5.421592E-02
15.00	[illegible]	[illegible]	[illegible]	[illegible]
16.00	7.716242E-01	8.100066E-01	7.821911E-01	-5.401599E-02
17.00	6.960103E-01	7.371249E-01	[illegible]	[illegible]
18.00	6.284742E-01	6.694923E-01	6.384250E-01	-5.049634E-02
19.00	5.665756E-01	6.079770E-01	[illegible]	[illegible]
20.00	5.109465E-01	5.524420E-01	5.202252E-01	-4.462801E-02
22.00	4.172120E-01	4.501700E-01	[illegible]	[illegible]
24.00	3.433903E-01	3.837373E-01	3.522431E-01	-3.084709E-02
26.00	2.874952E-01	3.255325E-01	[illegible]	[illegible]
28.00	2.440132E-01	2.802233E-01	2.510159E-01	-1.670761E-02
30.00	2.103110E-01	2.445736E-01	2.176226E-01	-1.100776E-02
32.00	1.837046E-01	2.101112E-01	1.907753E-01	-7.477504E-03
34.00	[illegible]	1.920961E-01	[illegible]	[illegible]
36.00	1.440305E-01	1.735073E-01	1.510806E-01	-1.944014E-03
38.00	1.289457E-01	1.569436E-01	1.357916E-01	-2.374932E-04
40.00	1.173982E-01	1.425160E-01	1.225302E-01	5.639895E-04
42.00	1.050284E-01	1.297650E-01	1.108427E-01	1.786304E-03
44.00	9.462792E-02	1.183745E-01	1.004246E-01	2.333500E-03
46.00	8.600400E-02	1.081304E-01	9.106031E-02	[illegible]
48.00	7.686332E-02	9.467958E-02	8.262802E-02	2.984863E-03
50.00	7.104450E-02	9.058440E-02	7.439624E-02	3.634749E-03
52.00	6.514791E-02	8.292262E-02	6.808895E-02	3.107816E-03
54.00	5.929949E-02	7.604865E-02	6.103643E-02	3.142932E-03
56.00	5.403749E-02	6.901054E-02	5.617760E-02	3.156503E-03
58.00	4.930200E-02	6.417253E-02	[illegible]	[illegible]
60.00	4.504389E-02	5.985661E-02	4.642672E-02	3.149904E-03
62.00	4.121201E-02	5.442178E-02	4.223945E-02	3.139402E-03
64.00	3.776507E-02	5.022336E-02	3.845432E-02	3.127874E-03
66.00	3.468390E-02	4.642060E-02	3.503310E-02	3.116302E-03
68.00	3.187162E-02	4.297632E-02	3.194693E-02	3.105384E-03
70.00	2.939644E-02	3.985071E-02	2.914544E-02	3.095560E-03
72.00	2.730875E-02	3.703121E-02	2.661757E-02	3.087343E-03
74.00	2.534201E-02	3.447220E-02	2.433115E-02	3.081304E-03
76.00	2.319330E-02	3.215475E-02	2.226209E-02	3.077909E-03
78.00	2.192650E-02	3.005634E-02	2.039100E-02	3.077426E-03
80.00	2.001822E-02	2.815664E-02	1.869712E-02	3.080001E-03
82.00	1.865365E-02	2.643746E-02	1.716358E-02	3.085848E-03
84.00	1.741965E-02	2.488254E-02	1.577492E-02	3.095347E-03
86.00	1.630130E-02	2.347740E-02	1.451730E-02	3.108992E-03
88.00	1.528902E-02	2.226901E-02	1.337637E-02	3.127251E-03
90.00	1.437431E-02	2.105735E-02	1.234700E-02	3.150507E-03
92.00	1.354071E-02	2.003725E-02	1.141339E-02	3.179123E-03
94.00	1.279916E-02	1.911493E-02	1.056836E-02	3.213950E-03

SCATTERING ANGLE	I1	I2	I3	I4
96.00	1.212499E-02	1.028969E-02	9.803927E-03	3.254416E-03
98.00	[illegible]	[illegible]	[illegible]	[illegible]
100.00	1.097415E-02	1.690688E-02	8.400890E-03	3.358366E-03
102.00	[illegible]	[illegible]	[illegible]	[illegible]
104.00	1.005652E-02	1.504419E-02	7.419357E-03	3.497659E-03
106.00	[illegible]	[illegible]	[illegible]	[illegible]
108.00	9.345407E-03	1.507852E-02	6.559946E-03	3.608932E-03
110.00	[illegible]	[illegible]	[illegible]	[illegible]
112.00	8.823643E-03	1.456697E-02	5.867487E-03	3.919821E-03
114.00	[illegible]	[illegible]	[illegible]	[illegible]
116.00	8.405196E-03	1.432677E-02	5.329345E-03	4.230230E-03
118.00	[illegible]	[illegible]	[illegible]	[illegible]
120.00	8.337940E-03	1.435665E-02	4.925059E-03	4.635126E-03
122.00	[illegible]	[illegible]	[illegible]	[illegible]
124.00	8.409561E-03	1.468486E-02	4.648099E-03	5.169593E-03
126.00	[illegible]	[illegible]	[illegible]	[illegible]
128.00	8.759806E-03	1.537495E-02	4.514166E-03	5.892140E-03
130.00	[illegible]	[illegible]	[illegible]	[illegible]
132.00	9.409336E-03	1.657303E-02	4.560955E-03	6.906136E-03
134.00	[illegible]	[illegible]	[illegible]	[illegible]
136.00	1.075194E-02	1.856435E-02	4.914681E-03	8.372027E-03
138.00	[illegible]	[illegible]	[illegible]	[illegible]
140.00	1.270004E-02	2.103304E-02	5.781689E-03	1.052301E-02
142.00	[illegible]	[illegible]	[illegible]	[illegible]
144.00	1.532304E-02	2.699046E-02	7.049057E-03	1.350248E-02
146.00	[illegible]	[illegible]	[illegible]	[illegible]
148.00	1.811739E-02	3.437328E-02	8.846614E-03	1.696962E-02
150.00	[illegible]	[illegible]	[illegible]	[illegible]
151.00	1.955206E-02	4.099355E-02	1.013720E-02	1.909229E-02
152.00	[illegible]	[illegible]	[illegible]	[illegible]
153.00	1.975577E-02	4.545259E-02	1.070060E-02	1.972257E-02
154.00	[illegible]	[illegible]	[illegible]	[illegible]
155.00	1.909714E-02	4.940792E-02	1.070517E-02	1.930953E-02
156.00	[illegible]	[illegible]	[illegible]	[illegible]
157.00	1.740169E-02	5.266168E-02	1.014187E-02	1.755692E-02
158.00	[illegible]	[illegible]	[illegible]	[illegible]
159.00	1.504100E-02	5.480934E-02	8.308093E-03	1.436173E-02
160.00	[illegible]	[illegible]	[illegible]	[illegible]
161.00	1.222374E-02	5.516502E-02	5.596526E-03	9.820787E-03
162.00	[illegible]	[illegible]	[illegible]	[illegible]
163.00	9.819450E-03	5.446520E-02	1.205750E-03	4.407177E-03
164.00	[illegible]	[illegible]	[illegible]	[illegible]
165.00	8.667475E-03	5.207950E-02	-4.797297E-03	-8.665899E-04
166.00	[illegible]	[illegible]	[illegible]	[illegible]
167.00	1.042076E-02	5.142545E-02	-1.237360E-02	-5.316470E-03
168.00	[illegible]	[illegible]	[illegible]	[illegible]
169.00	1.519437E-02	5.056213E-02	-2.125100E-02	-8.042473E-03
170.00	[illegible]	[illegible]	[illegible]	[illegible]
171.00	2.319835E-02	5.091946E-02	-3.087990E-02	-8.627173E-03
172.00	[illegible]	[illegible]	[illegible]	[illegible]
173.00	3.350687E-02	5.256656E-02	-4.044110E-02	-7.236960E-03
174.00	[illegible]	[illegible]	[illegible]	[illegible]
175.00	4.432470E-02	5.503797E-02	-4.893069E-02	-4.627559E-03
176.00	[illegible]	[illegible]	[illegible]	[illegible]
177.00	5.336543E-02	5.740179E-02	-5.531922E-02	-1.922819E-03
178.00	[illegible]	[illegible]	[illegible]	[illegible]
179.00	5.852022E-02	5.499281E-02	-5.875518E-02	-2.291127E-04
180.00	[illegible]	[illegible]	[illegible]	[illegible]

TABLE E2. NORMALIZED PHASE MATRIX FOR STRATOSPHERIC AEROSOLS, MODEL 20, λ=0.50μ

M=1.50-0.001

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.611054E+00	1.611054E+00	1.611054E+00	-1.213010E-15
1.00	[illegible]	[illegible]	[illegible]	[illegible]
2.00	1.593087E+00	1.593970E+00	1.593526E+00	-1.513346E-03
3.00	[illegible]	[illegible]	[illegible]	[illegible]
4.00	1.540625E+00	1.544062E+00	1.542308E+00	-5.824969E-03
5.00	[illegible]	[illegible]	[illegible]	[illegible]
6.00	1.457774E+00	1.465159E+00	1.461303E+00	-1.229524E-02
7.00	[illegible]	[illegible]	[illegible]	[illegible]
8.00	1.350727E+00	1.363046E+00	1.356420E+00	-1.999834E-02
9.00	[illegible]	[illegible]	[illegible]	[illegible]
10.00	1.226923E+00	1.244690E+00	1.234807E+00	-2.789495E-02
11.00	[illegible]	[illegible]	[illegible]	[illegible]
12.00	1.094136E+00	1.117390E+00	1.103989E+00	-3.501109E-02
13.00	[illegible]	[illegible]	[illegible]	[illegible]
14.00	9.596280E-01	9.879955E-01	9.710653E-01	-4.058385E-02
15.00	[illegible]	[illegible]	[illegible]	[illegible]
16.00	8.295172E-01	8.623082E-01	8.420840E-01	-4.414797E-02
17.00	[illegible]	[illegible]	[illegible]	[illegible]
18.00	7.084093E-01	7.447321E-01	7.216569E-01	-4.555504E-02
19.00	[illegible]	[illegible]	[illegible]	[illegible]
20.00	5.992962E-01	6.381677E-01	6.128315E-01	-4.493449E-02
22.00	[illegible]	[illegible]	[illegible]	[illegible]
24.00	4.217965E-01	4.628939E-01	4.350330E-01	-3.904232E-02
26.00	[illegible]	[illegible]	[illegible]	[illegible]
28.00	2.960677E-01	3.362529E-01	3.083012E-01	-2.995350E-02
30.00	[illegible]	[illegible]	[illegible]	[illegible]
32.00	2.115685E-01	2.487278E-01	2.223825E-01	-2.073711E-02
34.00	[illegible]	[illegible]	[illegible]	[illegible]
36.00	1.558185E-01	1.889149E-01	1.650679E-01	-1.311138E-02
38.00	[illegible]	[illegible]	[illegible]	[illegible]
40.00	1.186129E-01	1.473549E-01	1.262866E-01	-7.568397E-03
42.00	[illegible]	[illegible]	[illegible]	[illegible]
44.00	9.291266E-02	1.174987E-01	9.910969E-02	-3.087647E-03
46.00	[illegible]	[illegible]	[illegible]	[illegible]
48.00	7.436952E-02	9.525289E-02	7.924623E-02	-1.592186E-03
50.00	[illegible]	[illegible]	[illegible]	[illegible]
52.00	6.045053E-02	7.816996E-02	5.417704E-02	-2.138165E-04
54.00	[illegible]	[illegible]	[illegible]	[illegible]
56.00	4.969355E-02	6.477466E-02	5.243135E-02	6.049927E-04
58.00	[illegible]	[illegible]	[illegible]	[illegible]
60.00	4.122182E-02	5.412985E-02	4.311638E-02	1.102327E-03
62.00	3.765936E-02	4.903357E-02	3.918145E-02	1.270701E-03
64.00	3.447319E-02	4.560310E-02	3.565276E-02	1.422632E-03
66.00	3.161934E-02	4.190666E-02	3.240433E-02	[illegible]
68.00	2.936008E-02	3.873681E-02	2.963646E-02	1.647272E-03
70.00	[illegible]	[illegible]	[illegible]	[illegible]
72.00	2.469835E-02	3.318819E-02	2.476807E-02	1.820198E-03
74.00	[illegible]	3.002317E-02	[illegible]	[illegible]
76.00	2.117124E-02	2.809354E-02	2.081700E-02	1.965250E-03
78.00	1.966056E-02	2.677524E-02	1.912730E-02	2.031794E-03
80.00	1.831060E-02	2.504705E-02	1.760246E-02	2.095859E-03
82.00	1.708811E-02	2.349019E-02	1.622548E-02	2.158542E-03
84.00	1.596566E-02	2.208812E-02	1.498155E-02	2.220670E-03
86.00	1.499139E-02	[illegible]	1.305742E-02	[illegible]
88.00	1.409480E-02	1.909111E-02	1.284130E-02	2.346249E-03
90.00	[illegible]	[illegible]	1.192269E-02	[illegible]
92.00	1.235865E-02	1.775743E-02	1.109216E-02	2.477933E-03
94.00	[illegible]	[illegible]	[illegible]	[illegible]
96.00	1.131576E-02	1.621090E-02	9.662777E-03	2.621138E-03
98.00	[illegible]	[illegible]	[illegible]	[illegible]
100.00	1.031990E-02	1.499324E-02	8.496879E-03	2.782289E-03
102.00	[illegible]	[illegible]	[illegible]	[illegible]
104.00	9.537312E-03	1.406023E-02	7.550690E-03	2.968543E-03
106.00	[illegible]	[illegible]	[illegible]	[illegible]
108.00	8.945052E-03	1.338126E-02	6.790536E-03	3.188405E-03
110.00	[illegible]	[illegible]	[illegible]	[illegible]
112.00	8.531322E-03	1.293916E-02	6.192326E-03	3.453882E-03
114.00	[illegible]	[illegible]	5.949200E-03	[illegible]
116.00	8.296593E-03	1.273130E-02	5.742580E-03	3.782326E-03
118.00	[illegible]	[illegible]	[illegible]	[illegible]
120.00	8.255406E-03	1.277683E-02	5.440384E-03	4.199474E-03
122.00	[illegible]	[illegible]	[illegible]	4.452973E-03
124.00	8.437858E-03	1.312847E-02	5.300790E-03	4.744844E-03
126.00	[illegible]	[illegible]	[illegible]	[illegible]
128.00	8.686254E-03	1.388772E-02	5.357267E-03	5.475978E-03
130.00	[illegible]	[illegible]	[illegible]	[illegible]
132.00	9.638725E-03	1.522002E-02	5.657056E-03	6.463914E-03
134.00	[illegible]	[illegible]	5.911720E-03	7.073096E-03
136.00	1.068616E-02	1.734578E-02	6.238306E-03	7.764479E-03
138.00	[illegible]	[illegible]	[illegible]	[illegible]
140.00	1.189264E-02	2.046868E-02	7.073937E-03	9.341207E-03
142.00	[illegible]	[illegible]	[illegible]	[illegible]
144.00	1.290024E-02	2.460994E-02	7.980058E-03	1.093019E-02
146.00	[illegible]	2.696087E-02	[illegible]	[illegible]
148.00	1.310880E-02	2.937162E-02	8.521871E-03	1.191033E-02
150.00	[illegible]	[illegible]	[illegible]	[illegible]
151.00	1.235714E-02	3.279588E-02	8.270370E-03	1.169495E-02
152.00	[illegible]	[illegible]	[illegible]	[illegible]
153.00	1.135641E-02	3.471398E-02	7.589126E-03	1.080915E-02
154.00	[illegible]	[illegible]	7.053500E-03	1.025905E-02
155.00	1.001906E-02	3.616184E-02	6.371473E-03	9.479921E-03
156.00	9.272402E-03	3.667309E-02	[illegible]	[illegible]
157.00	8.511598E-03	3.703436E-02	4.525886E-03	7.494475E-03
158.00	[illegible]	[illegible]	[illegible]	[illegible]
159.00	7.105470E-03	3.730364E-02	1.989724E-03	5.055743E-03
160.00	[illegible]	3.722195E-02	4.542970E-04	[illegible]
161.00	6.166260E-03	3.703978E-02	-1.257447E-03	2.390467E-03
162.00	5.999405E-03	[illegible]	[illegible]	[illegible]
163.00	6.101090E-03	3.641028E-02	-5.181751E-03	-1.949501E-04
164.00	[illegible]	[illegible]	[illegible]	[illegible]
165.00	7.276997E-03	3.565356E-02	-9.085505E-03	-2.364877E-03
166.00	[illegible]	3.530050E-02	[illegible]	[illegible]
167.00	9.918708E-03	3.502526E-02	-1.460211E-02	-3.831876E-03
168.00	[illegible]	[illegible]	[illegible]	[illegible]
169.00	1.401044E-02	3.473186E-02	-1.969761E-02	-4.422962E-03
170.00	[illegible]	[illegible]	[illegible]	[illegible]
171.00	1.923451E-02	3.487003E-02	-2.468119E-02	-4.146272E-03
172.00	2.208097E-02	3.509236E-02	[illegible]	[illegible]
173.00	2.497061E-02	3.539451E-02	-2.922633E-02	-3.260978E-03
174.00	[illegible]	[illegible]	[illegible]	[illegible]
175.00	3.041251E-02	3.612999E-02	-3.300189E-02	-1.939444E-03
176.00	[illegible]	[illegible]	[illegible]	[illegible]
177.00	3.406011E-02	3.682749E-02	-3.571007E-02	-7.796199E-04
178.00	3.610924E-02	[illegible]	[illegible]	[illegible]
179.00	3.700252E-02	3.724863E-02	-3.712511E-02	-9.143203E-05
180.00	[illegible]	[illegible]	[illegible]	[illegible]

TABLE E3. NORMALIZED PHASE MATRIX FOR STRATOSPHERIC AEROSOLS, MODEL 20, λ=0.55μ

M=1.50-0.001

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.468977E+00	1.468977E+00	1.468977E+00	-1.660378E-19
1.00	1.465522E+00	1.465679E+00	1.465600E+00	-2.913539E-04
2.00	1.455217E+00	1.455039E+00	1.455527E+00	-1.179970E-03
3.00	1.438233E+00	1.439621E+00	1.438921E+00	-2.614916E-03
4.00	1.414654E+00	1.417209E+00	1.416052E+00	-4.571964E-03
5.00	1.385462E+00	1.389203E+00	1.387286E+00	-6.975507E-03
6.00	1.359528E+00	1.355806E+00	1.353074E+00	-9.757080E-03
7.00	1.316600E+00	1.317613E+00	1.313942E+00	-1.203330E-02
8.00	1.282285E+00	1.275196E+00	1.274472E+00	-1.611447E-02
9.00	1.218232E+00	1.229167E+00	1.223290E+00	-1.950744E-02
10.00	1.167118E+00	1.180164E+00	1.173051E+00	-2.291962E-02
11.00	1.113620E+00	1.128633E+00	1.120410E+00	-2.626149E-02
12.00	1.055440E+00	1.075816E+00	1.066059E+00	-2.945153E-02
13.00	1.002209E+00	1.021733E+00	1.010569E+00	-3.241472E-02
14.00	9.455585E-01	9.671761E-01	9.546445E-01	-3.508435E-02
15.00	8.890653E-01	9.126921E-01	8.987044E-01	-3.742140E-02
16.00	8.332527E-01	8.587796E-01	8.435284E-01	-3.937564E-02
17.00	7.785647E-01	8.056011E-01	7.893312E-01	-4.092582E-02
18.00	7.254617E-01	7.543801E-01	7.365988E-01	-4.205932E-02
19.00	6.742194E-01	7.045306E-01	6.856662E-01	-4.277532E-02
20.00	6.251284E-01	6.567978E-01	6.368073E-01	-4.308367E-02
22.00	5.341754E-01	5.670934E-01	5.461071E-01	-4.254140E-02
24.00	4.535666E-01	4.886424E-01	4.659144E-01	-4.072684E-02
26.00	3.837326E-01	4.192819E-01	3.952907E-01	-3.788360E-02
28.00	3.237395E-01	3.594844E-01	3.350856E-01	-3.435626E-02
30.00	2.732967E-01	3.085362E-01	2.841440E-01	-3.045211E-02
32.00	2.312132E-01	2.655087E-01	2.414727E-01	-2.643565E-02
34.00	1.963746E-01	2.293696E-01	2.059742E-01	[illegible]
36.00	1.676673E-01	1.990994E-01	1.765751E-01	-1.884083E-02
38.00	1.440566E-01	1.737454E-01	1.522444E-01	-1.550664E-02
40.00	1.246148E-01	1.524599E-01	1.320826E-01	-1.256118E-02
42.00	1.085576E-01	1.345146E-01	1.153124E-01	-1.001670E-02
44.00	9.522071E-02	1.193003E-01	1.012843E-01	-7.859639E-03
46.00	8.408712E-02	1.063102E-01	8.946920E-02	-6.079707E-03
48.00	7.466394E-02	9.510534E-02	7.943875E-02	-4.577321E-03
50.00	6.666896E-02	8.551965E-02	7.085462E-02	-3.369216E-03
52.00	5.981370E-02	7.712513E-02	6.344903E-02	-2.392380E-03
54.00	5.388050E-02	6.977020E-02	5.701493E-02	-1.606606E-03
56.00	4.873019E-02	6.331645E-02	5.138568E-02	-9.759722E-04
58.00	4.421074E-02	5.760936E-02	4.643270E-02	[illegible]
60.00	4.022962E-02	5.255098E-02	4.205370E-02	-6.131353E-05
62.00	3.670670E-02	4.805420E-02	3.816016E-02	2.697923E-04
64.00	3.357769E-02	4.404707E-02	3.476337E-02	5.407830E-04
66.00	3.078462E-02	4.046008E-02	3.161630E-02	7.651209E-04
68.00	2.828843E-02	3.726822E-02	2.884135E-02	9.534192E-04
70.00	2.606911E-02	3.440150E-02	2.635700E-02	1.114020E-03
72.00	2.406937E-02	3.183112E-02	2.412692E-02	1.253444E-03
74.00	2.227354E-02	2.952412E-02	2.212054E-02	1.376736E-03
76.00	2.065909E-02	2.745196E-02	2.031419E-02	1.487740E-03
78.00	1.920649E-02	2.558950E-02	1.868650E-02	1.584363E-03
80.00	1.789857E-02	2.391565E-02	1.721863E-02	1.663822E-03
82.00	1.672020E-02	2.240915E-02	1.589397E-02	1.772088E-03
84.00	1.565808E-02	2.105505E-02	1.469781E-02	1.850061E-03
86.00	1.470056E-02	1.983792E-02	1.361717E-02	1.940672E-03
88.00	1.383750E-02	1.874467E-02	1.264053E-02	2.021915E-03
90.00	1.306087E-02	1.776372E-02	1.175772E-02	2.102843E-03
92.00	1.236654E-02	1.688484E-02	1.095969E-02	2.184377E-03
94.00	1.173813E-02	1.609911E-02	1.023043E-02	2.267343E-03
96.00	1.116808E-02	1.539876E-02	9.586867E-03	2.352551E-03
98.00	1.066565E-02	1.477716E-02	8.990742E-03	2.440046E-03
100.00	1.021808E-02	1.422861E-02	8.468565E-03	2.533175E-03
102.00	9.822577E-03	1.374020E-02	7.991559E-03	2.630509E-03
104.00	9.470280E-03	1.333215E-02	7.563621E-03	2.734252E-03
106.00	9.176401E-03	1.297706E-02	7.181309E-03	2.845497E-03
108.00	8.923124E-03	1.268076E-02	6.841851E-03	2.965666E-03
110.00	8.713011E-03	1.244210E-02	6.543154E-03	3.096607E-03
112.00	8.548845E-03	1.226101E-02	6.283823E-03	3.240344E-03
114.00	8.428727E-03	1.213070E-02	6.063103E-03	3.399369E-03
116.00	8.354624E-03	1.207781E-02	5.881296E-03	3.576676E-03
118.00	8.328660E-03	1.208065E-02	5.738901E-03	3.775014E-03
120.00	8.351769E-03	1.215952E-02	5.637805E-03	4.000929E-03
122.00	8.427465E-03	1.231700E-02	5.580009E-03	4.256742E-03
124.00	8.557304E-03	1.256613E-02	5.568344E-03	4.548430E-03
126.00	8.742779E-03	1.292045E-02	5.605721E-03	4.881821E-03
128.00	8.983222E-03	1.339561E-02	5.696658E-03	5.268312E-03
130.00	9.275300E-03	1.400073E-02	5.836430E-03	[illegible]
132.00	9.611226E-03	1.477708E-02	6.029943E-03	6.160807E-03
134.00	9.977146E-03	1.572014E-02	6.270210E-03	6.693749E-03
136.00	1.035159E-02	1.683672E-02	6.546662E-03	7.255551E-03
138.00	1.070410E-02	1.814129E-02	6.842355E-03	7.835424E-03
140.00	1.099517E-02	1.961977E-02	7.126594E-03	8.395637E-03
142.00	1.117677E-02	2.124927E-02	7.364111E-03	8.897109E-03
144.00	1.119605E-02	2.297164E-02	7.506364E-03	9.279864E-03
146.00	1.100453E-02	2.472947E-02	7.491002E-03	9.479207E-03
148.00	1.056234E-02	2.643448E-02	7.253450E-03	9.410992E-03
150.00	9.897229E-03	2.796020E-02	6.719981E-03	9.020942E-03
151.00	9.412551E-03	2.867737E-02	6.319851E-03	8.688108E-03
152.00	[illegible]	[illegible]	[illegible]	[illegible]
153.00	8.379637E-03	2.982386E-02	5.215316E-03	7.733084E-03
154.00	7.818752E-03	3.026339E-02	4.497829E-03	7.115409E-03
155.00	7.252973E-03	3.060566E-02	3.662157E-03	6.406324E-03
156.00	6.705500E-03	3.084087E-02	2.706600E-03	[illegible]
157.00	6.203228E-03	3.099128E-02	1.629599E-03	4.772693E-03
158.00	[illegible]	3.103944E-02	[illegible]	[illegible]
159.00	5.453031E-03	3.100006E-02	-8.845940E-04	2.953879E-03
160.00	5.260270E-03	3.090413E-02	-2.317793E-03	2.024080E-03
161.00	5.252164E-03	3.078551E-02	-3.866592E-03	1.116116E-03
162.00	5.433440E-03	3.060045E-02	-5.479170E-03	2.516729E-04
163.00	5.836747E-03	3.022680E-02	-7.193366E-03	-5.448277E-04
164.00	[illegible]	2.990313E-02	-8.970093E-03	-1.240274E-03
165.00	7.376885E-03	2.978767E-02	-1.081253E-02	-1.841337E-03
166.00	8.526909E-03	2.947725E-02	-1.268229E-02	-2.307603E-03
167.00	9.922620E-03	2.928631E-02	-1.456549E-02	-2.637831E-03
168.00	1.159401E-02	2.914990E-02	-1.644044E-02	-2.829101E-03
169.00	1.336218E-02	2.906329E-02	-1.828416E-02	-2.874522E-03
170.00	1.533330E-02	2.904894E-02	-2.007301E-02	-2.794200E-03
171.00	1.740665E-02	2.907698E-02	-2.178386E-02	-2.599645E-03
172.00	1.952197E-02	2.916479E-02	-2.339056E-02	-2.312200E-03
173.00	2.161329E-02	2.929433E-02	-2.487244E-02	-1.957920E-03
174.00	2.361139E-02	2.945219E-02	-2.620083E-02	[illegible]
175.00	2.544677E-02	2.962318E-02	-2.737353E-02	-1.166217E-03
176.00	2.703422E-02	2.979103E-02	-2.839449E-02	[illegible]
177.00	2.837167E-02	2.994056E-02	-2.913427E-02	-4.637391E-04
178.00	2.935149E-02	3.005014E-02	-2.970044E-02	[illegible]
179.00	2.995510E-02	3.013318E-02	-3.004387E-02	-5.489910E-05
180.00	3.019897E-02	3.019897E-02	-3.019897E-02	[illegible]

TABLE E4. NORMALIZED PHASE MATRIX FOR STRATOSPHERIC AEROSOLS, MODEL 20, λ=0.70μ

N=1.50-0.00I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.133897E+00	1.133897E+00	1.133097E+00	-6.212724E-16
1.00	[illegible]	[illegible]	[illegible]	[illegible]
2.00	1.126137E+00	1.126239E+00	1.126108E+00	-6.422249E-04
3.00	[illegible]	[illegible]	[illegible]	[illegible]
4.00	1.105555E+00	1.105960E+00	1.105753E+00	-2.518292E-03
5.00	[illegible]	[illegible]	[illegible]	[illegible]
6.00	1.072220E+00	1.073125E+00	1.072644E+00	-5.401707E-03
7.00	[illegible]	[illegible]	[illegible]	[illegible]
8.00	1.027588E+00	1.029946E+00	1.028229E+00	-9.305937E-03
9.00	[illegible]	[illegible]	[illegible]	[illegible]
10.00	9.731970E-01	9.756421E-01	9.742400E-01	-1.370694E-02
11.00	[illegible]	[illegible]	[illegible]	[illegible]
12.00	9.113379E-01	9.147694E-01	9.127332E-01	-1.837201E-02
13.00	[illegible]	[illegible]	[illegible]	[illegible]
14.00	8.441192E-01	8.487039E-01	8.458497E-01	-2.298841E-02
15.00	[illegible]	[illegible]	[illegible]	[illegible]
16.00	7.737293E-01	7.795458E-01	7.757675E-01	-2.727012E-02
17.00	[illegible]	[illegible]	[illegible]	[illegible]
18.00	7.022360E-01	7.093473E-01	7.045420E-01	-3.097908E-02
19.00	[illegible]	[illegible]	[illegible]	[illegible]
20.00	6.314894E-01	6.399242E-01	6.340159E-01	-3.393939E-02
22.00	[illegible]	[illegible]	[illegible]	[illegible]
24.00	4.981780E-01	5.091801E-01	5.009497E-01	-3.725194E-02
26.00	[illegible]	[illegible]	[illegible]	[illegible]
28.00	3.823702E-01	3.956067E-01	3.853013E-01	-3.711212E-02
30.00	[illegible]	[illegible]	[illegible]	[illegible]
32.00	2.877329E-01	3.025940E-01	2.906234E-01	-3.419385E-02
34.00	[illegible]	[illegible]	[illegible]	[illegible]
36.00	2.140595E-01	2.297979E-01	2.167029E-01	-2.952978E-02
38.00	[illegible]	[illegible]	[illegible]	[illegible]
40.00	1.580167E-01	1.746604E-01	1.612672E-01	-2.414337E-02
42.00	[illegible]	[illegible]	[illegible]	[illegible]
44.00	1.184887E-01	1.337582E-01	1.205821E-01	-1.883386E-02
46.00	[illegible]	[illegible]	[illegible]	[illegible]
48.00	8.952205E-02	1.037041E-01	9.119912E-02	-1.409734E-02
50.00	[illegible]	[illegible]	[illegible]	[illegible]
52.00	6.883819E-02	8.161363E-02	7.006680E-02	-1.015827E-02
54.00	[illegible]	[illegible]	[illegible]	[illegible]
56.00	5.401627E-02	6.524635E-02	5.478972E-02	-7.045239E-03
58.00	[illegible]	[illegible]	[illegible]	[illegible]
60.00	4.327419E-02	5.296254E-02	4.360670E-02	-4.673711E-03
62.00	[illegible]	[illegible]	[illegible]	[illegible]
64.00	3.535760E-02	4.360476E-02	3.527833E-02	-2.911710E-03
66.00	[illegible]	[illegible]	[illegible]	[illegible]
68.00	2.940031E-02	3.637096E-02	2.895571E-02	-1.621210E-03
70.00	[illegible]	[illegible]	[illegible]	[illegible]
72.00	2.484839E-02	3.078759E-02	2.406471E-02	-6.789982E-04
74.00	[illegible]	[illegible]	[illegible]	[illegible]
76.00	2.129111E-02	2.622877E-02	2.021829E-02	1.544990E-05
78.00	[illegible]	[illegible]	[illegible]	[illegible]
80.00	1.847668E-02	2.266076E-02	1.715349E-02	5.386600E-04
82.00	1.729827E-02	2.115408E-02	1.585402E-02	7.540873E-04
84.00	1.622771E-02	1.980528E-02	1.468633E-02	9.461467E-04
86.00	[illegible]	[illegible]	[illegible]	[illegible]
88.00	1.442010E-02	1.751696E-02	1.268805E-02	1.277522E-03
90.00	[illegible]	[illegible]	[illegible]	[illegible]
92.00	1.296558E-02	1.568854E-02	1.106407E-02	1.561754E-03
94.00	[illegible]	[illegible]	[illegible]	[illegible]
96.00	1.180112E-02	1.424058E-02	9.745497E-03	1.820067E-03
98.00	[illegible]	[illegible]	[illegible]	[illegible]
100.00	1.088160E-02	1.311532E-02	8.681760E-03	2.072119E-03
102.00	[illegible]	[illegible]	[illegible]	[illegible]
104.00	1.017409E-02	1.227377E-02	7.635819E-03	2.330260E-03
106.00	[illegible]	[illegible]	[illegible]	[illegible]
108.00	9.653070E-03	1.169432E-02	7.180879E-03	2.609326E-03
110.00	[illegible]	[illegible]	[illegible]	[illegible]
112.00	9.300776E-03	1.137107E-02	6.697417E-03	2.923642E-03
114.00	[illegible]	[illegible]	[illegible]	[illegible]
116.00	9.094361E-03	1.131172E-02	6.369108E-03	3.280824E-03
118.00	[illegible]	[illegible]	[illegible]	[illegible]
120.00	9.006902E-03	1.153470E-02	6.176787E-03	3.700821E-03
122.00	[illegible]	[illegible]	[illegible]	[illegible]
124.00	8.995105E-03	1.206318E-02	6.090119E-03	4.190393E-03
126.00	[illegible]	[illegible]	[illegible]	[illegible]
128.00	8.992155E-03	1.291257E-02	6.056945E-03	4.713832E-03
130.00	[illegible]	[illegible]	[illegible]	[illegible]
132.00	8.903852E-03	1.407113E-02	5.991533E-03	5.230768E-03
134.00	[illegible]	[illegible]	[illegible]	[illegible]
136.00	8.616785E-03	1.547820E-02	5.766091E-03	5.652356E-03
138.00	[illegible]	[illegible]	[illegible]	[illegible]
140.00	8.029602E-03	1.700882E-02	5.213264E-03	5.851251E-03
142.00	[illegible]	[illegible]	[illegible]	[illegible]
144.00	7.108631E-03	1.847637E-02	4.147663E-03	5.685645E-03
146.00	[illegible]	[illegible]	[illegible]	[illegible]
148.00	5.970404E-03	1.966530E-02	2.409239E-03	5.050830E-03
150.00	[illegible]	[illegible]	[illegible]	[illegible]
151.00	5.158922E-03	2.026319E-02	6.128303E-04	4.262219E-03
152.00	[illegible]	[illegible]	[illegible]	[illegible]
153.00	4.750148E-03	2.049818E-02	-8.147738E-04	3.615727E-03
154.00	[illegible]	[illegible]	[illegible]	[illegible]
155.00	4.531149E-03	2.060299E-02	-2.407707E-03	2.907478E-03
156.00	[illegible]	[illegible]	[illegible]	[illegible]
157.00	4.574786E-03	2.059023E-02	-4.138414E-03	2.177507E-03
158.00	[illegible]	[illegible]	[illegible]	[illegible]
159.00	4.944720E-03	2.043218E-02	-5.969858E-03	1.471431E-03
160.00	[illegible]	[illegible]	[illegible]	[illegible]
161.00	5.684916E-03	2.030006E-02	-7.857151E-03	8.345237E-04
162.00	[illegible]	[illegible]	[illegible]	[illegible]
163.00	6.809343E-03	2.010024E-02	-9.749879E-03	3.065281E-04
164.00	[illegible]	[illegible]	[illegible]	[illegible]
165.00	8.293682E-03	1.988969E-02	-1.159408E-02	-8.459694E-05
166.00	[illegible]	[illegible]	[illegible]	[illegible]
167.00	1.007094E-02	1.970181E-02	-1.333915E-02	-3.271885E-04
168.00	[illegible]	[illegible]	[illegible]	[illegible]
169.00	1.203255E-02	1.955320E-02	-1.493260E-02	-4.281515E-04
170.00	[illegible]	[illegible]	[illegible]	[illegible]
171.00	1.403576E-02	1.945028E-02	-1.633027E-02	-4.121934E-04
172.00	[illegible]	[illegible]	[illegible]	[illegible]
173.00	1.591710E-02	1.938993E-02	-1.749394E-02	-3.178656E-04
174.00	[illegible]	[illegible]	[illegible]	[illegible]
175.00	1.751045E-02	1.936211E-02	-1.835298E-02	-1.909184E-04
176.00	[illegible]	[illegible]	[illegible]	[illegible]
177.00	1.866723E-02	1.935376E-02	-1.900472E-02	-7.609230E-05
178.00	[illegible]	[illegible]	[illegible]	[illegible]
179.00	1.927563E-02	1.935305E-02	-1.931427E-02	-2.079854E-05
180.00	[illegible]	[illegible]	[illegible]	[illegible]

TABLE E5. NORMALIZED PHASE MATRIX FOR STRATOSPHERIC AEROSOLS, MODEL 20, λ=0.85μ

M=1.50-0.00I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	8.898760E-01	8.898760E-01	8.898760E-01	-7.332730E-16
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2.00	8.868021E-01	8.858753E-01	8.859305E-01	-3.053576E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4.00	8.744945E-01	8.739966E-01	8.742439E-01	-1.520318E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6.00	8.556975E-01	8.546110E-01	8.551441E-01	-3.343114E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8.00	8.301631E-01	8.283122E-01	8.292004E-01	-5.755002E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10.00	7.986217E-01	7.958845E-01	7.971797E-01	-8.631754E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12.00	7.619440E-01	7.582606E-01	7.599576E-01	-1.102301E-02
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14.00	7.211015E-01	7.164731E-01	7.185332E-01	-1.517504E-02
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16.00	6.771120E-01	6.716044E-01	6.739521E-01	-1.852846E-02
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18.00	6.310870E-01	6.247374E-01	6.272663E-01	-2.173650E-02
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20.00	5.837780E-01	5.769100E-01	5.794915E-01	-2.466892E-02
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24.00	4.895530E-01	4.828950E-01	4.843487E-01	-2.930675E-02
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28.00	4.005641E-01	3.933786E-01	3.947503E-01	-3.192047E-02
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
32.00	3.205804E-01	3.140816E-01	3.140744E-01	-3.242505E-02
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
36.00	2.528007E-01	2.482740E-01	2.460422E-01	-3.108300E-02
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40.00	1.960364E-01	1.939980E-01	1.910620E-01	-2.036696E-02
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
44.00	1.520967E-01	1.509879E-01	1.467307E-01	-2.480050E-02
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
48.00	1.172736E-01	1.170521E-01	1.123902E-01	-2.049949E-02
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
52.00	9.060923E-02	9.220840E-02	8.627045E-02	-1.702536E-02
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
56.00	7.067025E-02	7.292097E-02	6.666149E-02	-1.344672E-02
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60.00	5.571600E-02	5.836810E-02	5.204104E-02	-1.030753E-02
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
64.00	4.457016E-02	4.733299E-02	4.115260E-02	-7.659039E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
68.00	3.626415E-02	3.891209E-02	3.301190E-02	-5.400661E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
72.00	3.002157E-02	3.242702E-02	2.607694E-02	-3.740633E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
76.00	2.529323E-02	2.730692E-02	2.220363E-02	-2.366042E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80.00	2.167471E-02	2.343310E-02	1.060059E-02	-1.200470E-03
82.00	2.010741E-02	2.178105E-02	1.710904E-02	-8.270031E-04
84.00	1.007591E-02	2.031352E-02	1.570913E-02	-4.234069E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
88.00	1.669012E-02	1.704631E-02	1.357190E-02	2.607336E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
92.00	1.497020E-02	1.590159E-02	1.108915E-02	6.196450E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SCATTERING ANGLE	I1	I2	I3	I4
96.00	1.361095E-02	1.430621E-02	1.040111E-02	1.292471E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100.00	1.253446E-02	1.323351E-02	9.274876E-03	1.710467E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
104.00	1.160049E-02	1.239650E-02	8.374473E-03	2.090060E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
108.00	1.099041E-02	1.184319E-02	7.653470E-03	2.473776E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
112.00	1.044166E-02	1.155122E-02	7.060975E-03	2.050264E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
116.00	9.963036E-03	1.150354E-02	6.576319E-03	3.232937E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120.00	9.515122E-03	1.160227E-02	6.124226E-03	3.617558E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
124.00	9.044833E-03	1.206306E-02	5.651212E-03	3.987735E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
128.00	8.504662E-03	1.261001E-02	5.004653E-03	4.313506E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
132.00	7.060812E-03	1.327200E-02	4.344052E-03	4.552244E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
136.00	7.110275E-03	1.390220E-02	3.349400E-03	4.653276E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140.00	6.299632E-03	1.466333E-02	2.035160E-03	4.567634E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
144.00	5.539770E-03	1.523041E-02	3.062051E-04	4.262935E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
148.00	5.006304E-03	1.564826E-02	-1.644505E-03	3.740104E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
151.00	4.804307E-03	1.503030E-02	-3.336955E-03	3.230030E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
153.00	4.905413E-03	1.509333E-02	-4.526413E-03	2.054006E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155.00	5.257417E-03	1.591460E-02	-5.743266E-03	2.462677E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
157.00	5.713656E-03	1.590099E-02	-6.966570E-03	2.070755E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
159.00	6.357116E-03	1.586032E-02	-8.174217E-03	1.692320E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
161.00	7.170367E-03	1.580133E-02	-9.343064E-03	1.340106E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
163.00	8.154287E-03	1.573240E-02	-1.045401E-02	1.024430E-03
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165.00	9.247942E-03	1.566133E-02	-1.148487E-02	7.524563E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
167.00	1.040984E-02	1.559398E-02	-1.241904E-02	5.277150E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
169.00	1.150050E-02	1.553444E-02	-1.324196E-02	3.501170E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
171.00	1.269402E-02	1.546537E-02	-1.394206E-02	2.164315E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
173.00	1.360618E-02	1.544750E-02	-1.451063E-02	1.211687E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
175.00	1.449270E-02	1.542047E-02	-1.494154E-02	5.774310E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
177.00	1.506214E-02	1.540334E-02	-1.523075E-02	1.974690E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
179.00	1.535677E-02	1.539509E-02	-1.537590E-02	2.134146E-06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

TABLE E6. NORMALIZED PHASE MATRIX FOR AITKEN PARTICLES, MODEL 30, λ=0.41μ

M=1.50-0.001

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.583884E-01	1.583884E-01	1.583884E-01	7.536595E-18
1.00	[illegible]	1.582562E-01	1.582707E-01	[illegible]
2.00	1.582799E-01	1.580998E-01	1.581898E-01	4.762437E-07
3.00	[illegible]	[illegible]	[illegible]	[illegible]
4.00	1.581947E-01	1.574752E-01	1.578345E-01	1.902477E-06
5.00	[illegible]	[illegible]	[illegible]	2.969697E-06
6.00	1.580529E-01	1.564383E-01	1.572435E-01	4.271223E-06
7.00	1.579608E-01	1.557672E-01	1.568601E-01	5.885740E-06
8.00	1.578547E-01	1.549954E-01	1.564185E-01	7.570063E-06
9.00	[illegible]	[illegible]	[illegible]	[illegible]
10.00	1.576807E-01	1.531550E-01	1.553619E-01	1.178171E-05
11.00	1.574629E-01	1.520891E-01	1.547477E-01	1.422343E-05
12.00	1.572913E-01	1.509280E-01	1.540760E-01	1.688411E-05
13.00	1.571161E-01	1.496736E-01	1.533497E-01	1.976110E-05
14.00	1.569272E-01	1.483276E-01	1.525668E-01	2.285056E-05
15.00	[illegible]	[illegible]	[illegible]	[illegible]
16.00	1.565093E-01	1.453691E-01	1.508363E-01	2.964985E-05
17.00	1.562803E-01	1.437609E-01	1.498899E-01	3.335088E-05
18.00	1.560383E-01	1.420698E-01	1.488903E-01	3.724646E-05
19.00	1.557832E-01	1.402903E-01	1.478301E-01	4.133152E-05
20.00	1.555153E-01	1.384490E-01	1.467342E-01	4.560073E-05
22.00	[illegible]	[illegible]	[illegible]	[illegible]
24.00	1.543177E-01	1.303284E-01	1.418165E-01	6.440440E-05
26.00	1.536456E-01	1.258752E-01	1.390607E-01	7.475596E-05
28.00	1.529264E-01	1.211933E-01	1.361381E-01	8.567006E-05
30.00	1.521616E-01	1.163090E-01	1.330326E-01	9.709015E-05
32.00	1.513528E-01	1.112496E-01	1.297606E-01	1.089572E-04
34.00	[illegible]	[illegible]	[illegible]	[illegible]
36.00	1.496097E-01	1.007170E-01	1.227520E-01	1.337850E-04
38.00	1.486780E-01	9.530891E-02	1.190386E-01	1.466181E-04
40.00	1.477107E-01	8.982315E-02	1.151850E-01	1.596434E-04
42.00	1.467074E-01	8.431238E-02	1.112157E-01	1.727941E-04
44.00	1.456706E-01	7.879692E-02	1.071356E-01	1.860033E-04
46.00	[illegible]	[illegible]	[illegible]	[illegible]
48.00	1.435048E-01	6.786277E-02	9.868213E-02	2.123288E-04
50.00	1.423796E-01	6.249775E-02	9.432050E-02	2.253110E-04
52.00	1.412291E-01	5.723505E-02	8.990367E-02	2.380876E-04
54.00	1.400592E-01	5.209987E-02	8.541729E-02	2.509928E-04
56.00	1.388599E-01	4.711296E-02	8.087887E-02	2.627627E-04
58.00	[illegible]	[illegible]	[illegible]	[illegible]
60.00	1.364135E-01	3.767623E-02	7.168481E-02	2.858628E-04
62.00	1.351665E-01	3.326484E-02	6.704772E-02	2.966783E-04
64.00	1.339663E-01	2.908163E-02	6.239597E-02	3.069323E-04
66.00	1.326349E-01	2.514214E-02	5.773832E-02	3.165751E-04
68.00	1.313544E-01	2.146025E-02	5.308324E-02	3.255600E-04
70.00	[illegible]	[illegible]	[illegible]	[illegible]
72.00	1.287736E-01	1.491580E-02	4.381318E-02	3.413870E-04
74.00	1.274771E-01	1.207289E-02	3.921362E-02	3.481542E-04
76.00	1.261792E-01	9.523664E-03	3.464741E-02	3.541137E-04
78.00	1.248815E-01	7.275497E-03	3.012139E-02	3.592382E-04
80.00	1.235859E-01	5.330845E-03	2.564205E-02	3.635046E-04
82.00	1.222941E-01	3.691260E-03	2.121548E-02	3.668941E-04
84.00	1.210077E-01	2.356642E-03	1.684744E-02	3.693923E-04
86.00	1.197285E-01	1.325299E-03	1.254327E-02	3.709894E-04
88.00	1.184579E-01	5.940054E-04	8.307946E-03	3.716809E-04
90.00	1.171975E-01	1.560769E-04	4.146881E-03	3.714631E-04
92.00	1.159487E-01	1.144649E-05	6.189679E-05	3.703423E-04
94.00	[illegible]	1.567467E-04	-3.940746E-03	3.683254E-04
96.00	1.134917E-01	5.553961E-04	-7.858349E-03	3.654246E-04
98.00	1.122861E-01	1.227449E-03	-1.168427E-02	3.616464E-04
100.00	1.110974E-01	2.152890E-03	-1.542621E-02	3.570414E-04
102.00	1.099269E-01	3.310322E-03	-1.907421E-02	[illegible]
104.00	1.087756E-01	4.714460E-03	-2.262062E-02	3.453727E-04
106.00	[illegible]	[illegible]	[illegible]	[illegible]
108.00	1.065350E-01	8.137186E-03	-2.942566E-02	3.306501E-04
110.00	1.054470E-01	1.013036E-02	-3.267086E-02	3.222632E-04
112.00	1.043834E-01	1.230763E-02	-3.583014E-02	3.132008E-04
114.00	1.033433E-01	1.467548E-02	-3.887986E-02	3.035474E-04
116.00	1.023279E-01	1.710488E-02	-4.182715E-02	2.933415E-04
118.00	[illegible]	[illegible]	[illegible]	[illegible]
120.00	1.003747E-01	2.240327E-02	-4.741355E-02	2.714710E-04
122.00	9.943822E-02	2.520849E-02	-5.005270E-02	[illegible]
124.00	9.852925E-02	2.807506E-02	-5.258947E-02	2.480125E-04
126.00	9.764848E-02	3.101106E-02	-5.502430E-02	2.358274E-04
128.00	9.679619E-02	3.399275E-02	-5.735778E-02	2.234153E-04
130.00	[illegible]	[illegible]	[illegible]	[illegible]
132.00	9.517961E-02	4.003122E-02	-6.172355E-02	1.981463E-04
134.00	[illegible]	4.305777E-02	-6.375746E-02	[illegible]
136.00	9.368294E-02	4.606959E-02	-6.569374E-02	1.726812E-04
138.00	9.298058E-02	4.905251E-02	-6.753293E-02	1.600241E-04
140.00	9.230910E-02	5.199275E-02	-6.927633E-02	1.474958E-04
142.00	[illegible]	[illegible]	[illegible]	[illegible]
144.00	9.106049E-02	5.769276E-02	-7.248028E-02	1.239576E-04
146.00	[illegible]	[illegible]	-7.394318E-02	1.112603E-04
148.00	8.993913E-02	6.306961E-02	-7.531492E-02	9.981719E-05
150.00	8.942665E-02	6.560817E-02	-7.659464E-02	[illegible]
151.00	8.918259E-02	6.683530E-02	-7.720417E-02	8.343065E-05
152.00	[illegible]	[illegible]	[illegible]	[illegible]
153.00	8.871879E-02	6.919903E-02	-7.835309E-02	7.309790E-05
154.00	[illegible]	[illegible]	[illegible]	6.812689E-05
155.00	8.828760E-02	7.143417E-02	-7.941403E-02	6.329372E-05
156.00	8.808427E-02	7.263871E-02	-7.991334E-02	[illegible]
157.00	8.788915E-02	7.353184E-02	-8.039045E-02	5.406272E-05
158.00	[illegible]	[illegible]	[illegible]	[illegible]
159.00	8.752356E-02	7.546362E-02	-8.128096E-02	4.544680E-05
160.00	8.735311E-02	7.646279E-02	-8.169459E-02	4.138162E-05
161.00	8.719092E-02	7.720255E-02	-8.208730E-02	3.748502E-05
162.00	[illegible]	7.812227E-02	-8.245918E-02	3.376082E-05
153.00	8.689132E-02	7.892115E-02	-8.281035E-02	3.021341E-05
164.00	[illegible]	[illegible]	[illegible]	[illegible]
165.00	8.662484E-02	8.039338E-02	-8.345094E-02	2.366481E-05
166.00	[illegible]	8.106576E-02	-8.374054E-02	2.067101E-05
167.00	8.639154E-02	8.169373E-02	-8.400979E-02	1.786877E-05
168.00	8.628735E-02	8.227790E-02	-8.425877E-02	1.526187E-05
169.00	8.619147E-02	8.281733E-02	-8.448755E-02	1.285143E-05
170.00	8.610391E-02	8.331153E-02	-8.469621E-02	1.064197E-05
171.00	8.602468E-02	8.376004E-02	-8.488480E-02	8.635371E-06
172.00	8.595376E-02	8.416244E-02	-8.505339E-02	6.833497E-06
173.00	8.589121E-02	8.451837E-02	-8.520202E-02	5.239559E-06
174.00	8.583697E-02	8.482750E-02	-8.533074E-02	3.854162E-06
175.00	8.579108E-02	8.508955E-02	-8.543959E-02	2.679260E-06
176.00	8.575352E-02	8.530420E-02	-8.552861E-02	1.715172E-06
177.00	8.572431E-02	8.547150E-02	-8.559781E-02	9.659794E-07
178.00	8.570345E-02	8.559105E-02	-8.564723E-02	4.295251E-07
179.00	8.569093E-02	8.566282E-02	-8.567687E-02	1.074114E-07
180.00	8.568675E-02	8.568675E-02	-8.568675E-02	-0.

TABLE E7. NORMALIZED PHASE MATRIX FOR AITKEN PARTICLES, MODEL 30, λ=0.50μ

M=1.50-0.00I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.449439E-01	1.449439E-01	1.449439E-01	2.465534E-18
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2.00	1.449263E-01	1.447573E-01	1.448418E-01	1.828663E-07
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4.00	1.448734E-01	1.441985E-01	1.445356E-01	7.389206E-07
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6.00	1.447855E-01	1.432786E-01	1.440260E-01	1.640135E-06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8.00	1.446625E-01	1.419789E-01	1.433144E-01	2.907813E-06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10.00	1.445049E-01	1.403387E-01	1.424025E-01	4.524615E-06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12.00	1.443127E-01	1.383351E-01	1.412923E-01	6.484597E-06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14.00	1.440865E-01	1.360833E-01	1.399866E-01	8.776851E-06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16.00	1.438266E-01	1.333484E-01	1.384885E-01	1.138957E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18.00	1.435335E-01	1.303851E-01	1.368015E-01	1.430928E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20.00	1.432078E-01	1.271299E-01	1.349296E-01	1.752899E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24.00	1.424687E-01	1.198167E-01	1.306498E-01	2.475290E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28.00	1.415908E-01	1.115689E-01	1.256865E-01	3.293786E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
32.00	1.406842E-01	1.025648E-01	1.200874E-01	4.190611E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
36.00	1.395078E-01	9.299622E-02	1.139019E-01	5.147718E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40.00	1.383094E-01	8.306483E-02	1.071842E-01	6.145582E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
44.00	1.370170E-01	7.297262E-02	9.999148E-02	7.164005E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
48.00	1.356394E-01	6.292511E-02	9.238492E-02	8.182466E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
52.00	1.341856E-01	5.311855E-02	8.442485E-02	9.180544E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
56.00	1.326649E-01	4.373949E-02	7.617393E-02	1.013834E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60.00	1.310870E-01	3.495997E-02	6.769436E-02	1.103687E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
64.00	1.294615E-01	2.693485E-02	5.904753E-02	1.185846E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
68.00	1.277981E-01	1.979504E-02	5.029332E-02	1.258709E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
72.00	1.261065E-01	1.365324E-02	4.148950E-02	1.320868E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
76.00	1.243962E-01	8.594515E-03	3.269118E-02	1.371140E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80.00	1.226765E-01	4.679397E-03	2.395037E-02	1.408581E-04
82.00	1.218160E-01	3.162635E-03	1.961684E-02	1.422267E-04
84.00	1.209566E-01	1.942945E-03	1.531560E-02	1.432510E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
88.00	1.192452E-01	3.951541E-04	6.831656E-03	1.442519E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
92.00	1.175508E-01	2.192577E-05	-1.460582E-03	1.438459E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SCATTERING ANGLE	I1	I2	I3	I4
96.00	1.158813E-01	7.865203E-04	-9.524205E-03	1.428480E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100.00	1.142445E-01	2.631407E-03	-1.732667E-02	1.380985E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
104.00	1.126473E-01	5.488439E-03	-2.483896E-02	1.344637E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
108.00	1.110967E-01	9.241263E-03	-3.203629E-02	1.288344E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
112.00	1.095987E-01	1.388790E-02	-3.889758E-02	1.221236E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
116.00	1.081593E-01	1.906340E-02	-4.540495E-02	1.144638E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120.00	1.067836E-01	2.486253E-02	-5.154428E-02	1.060049E-04
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
124.00	1.054767E-01	3.113440E-02	-5.730409E-02	9.691087E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
128.00	1.042428E-01	3.768504E-02	-6.267565E-02	8.735650E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
132.00	1.030860E-01	4.439981E-02	-6.765261E-02	7.752417E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
136.00	1.020859E-01	5.114563E-02	-7.223065E-02	6.760037E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140.00	1.010176E-01	5.779312E-02	-7.640718E-02	5.777224E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
144.00	1.001121E-01	6.421841E-02	-8.010098E-02	4.822416E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
148.00	9.929565E-02	7.030445E-02	-8.355199E-02	3.913444E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
151.00	9.874316E-02	7.458280E-02	-8.581632E-02	3.272005E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
153.00	9.840376E-02	7.727267E-02	-8.720048E-02	2.867320E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155.00	9.808776E-02	7.982165E-02	-8.848454E-02	2.483187E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
157.00	9.779535E-02	8.221747E-02	-8.966071E-02	2.121381E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
159.00	9.752671E-02	8.445028E-02	-9.075320E-02	1.783571E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
161.00	9.728199E-02	8.651043E-02	-9.173623E-02	1.471314E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
163.00	9.706134E-02	8.838958E-02	-9.262402E-02	1.186048E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165.00	9.686490E-02	9.007985E-02	-9.341078E-02	9.290825E-06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
167.00	9.669276E-02	9.157426E-02	-9.409871E-02	7.015990E-06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
169.00	9.654504E-02	9.286668E-02	-9.468800E-02	5.046411E-06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
171.00	9.642181E-02	9.395182E-02	-9.517880E-02	3.391118E-06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
173.00	9.632315E-02	9.482526E-02	-9.557127E-02	2.057696E-06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
175.00	9.624910E-02	9.548346E-02	-9.586552E-02	1.052252E-06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
177.00	9.619971E-02	9.592374E-02	-9.606163E-02	3.793895E-07
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
179.00	9.617501E-02	9.614433E-02	-9.615967E-02	4.218650E-08
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

TABLE E8. NORMALIZED PHASE MATRIX FOR AITKEN PARTICLES, MODEL 30, λ=0.55μ

M=1.50-0.001

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.403647E-01	1.403647E-01	1.403647E-01	1.055959E-17
1.00	1.403611E-01	1.403199E-01	1.403405E-01	2.866374E-08
2.00	1.403505E-01	1.401855E-01	1.402680E-01	1.146184E-07
3.00	1.403326E-01	1.399618E-01	1.401472E-01	2.579576E-07
4.00	1.403080E-01	1.396491E-01	1.399781E-01	4.578861F-07
5.00	1.402761E-01	1.392477E-01	1.397610E-01	7.147594E-07
6.00	1.402372E-01	1.387583E-01	1.394958E-01	1.029044E-06
7.00	1.401913E-01	1.381854E-01	1.391827E-01	1.397340E-06
8.00	1.401383E-01	1.375180E-01	1.388220E-01	1.822172E-06
9.00	1.400784E-01	1.367680E-01	1.384138E-01	2.301000E-06
10.00	1.400115E-01	1.359351E-01	1.379583E-01	2.836203E-06
11.00	1.399377E-01	1.350179E-01	1.374556E-01	3.424102E-06
12.00	1.398569E-01	1.340183E-01	1.369065E-01	4.064944E-06
13.00	1.397693E-01	1.329379E-01	1.363108E-01	4.757300E-06
14.00	1.396749E-01	1.317781E-01	1.356690E-01	5.502100E-06
15.00	1.395737E-01	1.305404E-01	1.349815E-01	6.294492E-06
16.00	1.394657E-01	1.292266E-01	1.342486E-01	7.140345E-06
17.00	1.393510E-01	1.278384E-01	1.334707E-01	8.032200E-06
18.00	1.392297E-01	1.263778E-01	1.326482E-01	8.971281E-06
19.00	1.391010E-01	1.248460E-01	1.317817E-01	9.956125E-06
20.00	1.389674E-01	1.232473E-01	1.308715E-01	1.098556E-05
22.00	1.386790E-01	1.198510E-01	1.289222E-01	1.317291E-05
24.00	1.383653E-01	1.162098E-01	1.268046E-01	1.552218E-05
26.00	1.380266E-01	1.123408E-01	1.245232E-01	1.802139E-05
28.00	1.376636E-01	1.082655E-01	1.220628E-01	2.065784E-05
30.00	1.372769E-01	1.040055E-01	1.194806E-01	2.341012E-05
32.00	1.368671E-01	9.958323E-02	1.167461E-01	2.628822E-05
34.00	1.364349E-01	9.502203E-02	1.138680E-01	2.925760E-05
36.00	1.359811E-01	9.034562E-02	1.108389E-01	3.229925E-05
38.00	1.355062E-01	8.557822E-02	1.076463E-01	3.540970E-05
40.00	1.350113E-01	8.074427E-02	1.044095E-01	3.856950E-05
42.00	1.344969E-01	7.586839E-02	1.010149E-01	4.176251E-05
44.00	1.339641E-01	7.097315E-02	9.750923E-02	4.497275E-05
46.00	1.334135E-01	6.608097E-02	9.389932E-02	4.818412E-05
48.00	1.328462E-01	6.123398E-02	9.019206E-02	5.138055E-05
50.00	1.322629E-01	5.643384E-02	8.639445E-02	5.454609E-05
52.00	1.316646E-01	5.171170E-02	8.251355E-02	5.766495E-05
54.00	1.310523E-01	4.708498E-02	7.855640E-02	6.072146E-05
56.00	1.304267E-01	4.259031E-02	7.453035E-02	6.370105F-05
58.00	1.297890E-01	3.823340E-02	7.044231E-02	6.658842E-05
60.00	1.291400E-01	3.403895E-02	6.629948E-02	6.936954E-05
62.00	1.284806E-01	3.002552E-02	6.210892E-02	7.203076E-05
64.00	1.278120E-01	2.621051E-02	5.787767E-02	7.455906E-05
66.00	1.271349E-01	2.261002E-02	5.361267E-02	7.694213E-05
68.00	1.264504E-01	1.923881E-02	4.932078E-02	7.916840E-05
70.00	1.257595E-01	1.611025E-02	4.500876E-02	8.122714E-05
72.00	1.250631E-01	1.323624E-02	4.068326E-02	8.310845E-05
74.00	1.243621E-01	1.062723E-02	3.635079E-02	8.480397E-05
76.00	1.236576E-01	8.292121E-03	3.201762E-02	8.630386E-05
78.00	1.229504E-01	6.230299E-03	2.769004E-02	8.760204E-05
80.00	1.222415E-01	4.471682E-03	2.337405E-02	8.869441E-05
82.00	1.215318E-01	2.996323E-03	1.907549E-02	8.957346E-05
84.00	1.208222E-01	1.815220E-03	1.480004E-02	9.023611E-05
86.00	1.201136E-01	9.292846E-04	1.055317E-02	9.067949E-05
88.00	1.194069E-01	3.389905E-04	6.340132E-03	9.090183E-05
90.00	1.187028E-01	4.180260E-05	2.166089E-03	9.090246E-05
92.00	1.180026E-01	3.505642E-05	-1.964348E-03	9.068170E-05
94.00	1.173067E-01	3.130446E-04	-6.046291E-03	9.024124E-05

SCATTERING ANGLE	I1	I2	I3	I4
96.00	1.166160E-01	8.728112E-04	-1.007539E-02	8.958340E-05
98.00	1.159314E-01	1.720410E-03	-1.404742E-02	8.871185E-05
100.00	1.152536E-01	2.800444E-03	-1.795639E-02	8.763118F-05
102.00	1.145834E-01	4.151437E-03	-2.180449E-02	8.634701E-05
104.00	1.139214E-01	5.768837E-03	-2.558216E-02	8.486590E-05
106.00	1.132685E-01	7.675306E-03	-2.928603E-02	8.319536E-05
108.00	1.126253E-01	9.823740E-03	-3.291893E-02	8.134378E-05
110.00	1.119924E-01	1.207946E-02	-3.647490E-02	7.932037E-05
112.00	1.113706E-01	1.432816E-02	-3.994418E-02	7.713517E-05
114.00	1.107604E-01	1.695610E-02	-4.333321E-02	7.479895E-05
116.00	1.101624E-01	1.974490E-02	-4.663060E-02	7.232315E-05
118.00	1.095773E-01	2.268169E-02	-4.985215E-02	6.971888E-05
120.00	1.090055E-01	2.574915E-02	-5.297784E-02	6.700180E-05
122.00	1.084477E-01	2.893062E-02	-5.601181E-02	6.418206E-05
124.00	1.079043E-01	3.220914E-02	-5.895236E-02	6.127429E-05
126.00	1.073750E-01	3.556758E-02	-6.179794E-02	5.829249E-05
128.00	1.068627E-01	3.898869E-02	-6.454717E-02	5.525095F-05
130.00	1.063656E-01	4.245518E-02	-6.719870E-02	5.216424E-05
132.00	1.058845E-01	4.594978E-02	-6.975165E-02	4.904707E-05
134.00	1.054203E-01	4.945535E-02	-7.220476E-02	4.591429E-05
136.00	1.049730E-01	5.295491E-02	-7.455722E-02	4.278076E-05
138.00	1.045433E-01	5.643173E-02	-7.680825E-02	3.966132E-05
140.00	1.041313E-01	5.986938E-02	-7.895716E-02	3.657072E-05
142.00	1.037377E-01	6.325179E-02	-8.100334E-02	3.352353E-05
144.00	1.033620E-01	6.656335E-02	-8.294630E-02	3.053408E-05
146.00	1.030052E-01	6.978888E-02	-8.478585E-02	2.761624E-05
148.00	1.026675E-01	7.291377E-02	-8.652083E-02	2.478423E-05
150.00	1.023490E-01	7.592398E-02	-8.815172E-02	2.205476E-05
151.00	1.021970E-01	7.738166E-02	-8.892795E-02	2.072505E-05
152.00	1.020499E-01	7.880610E-02	-8.967801E-02	1.942874E-05
153.00	1.019076E-01	8.019512E-02	-9.040166E-02	1.816345E-05
154.00	1.017706E-01	8.154739E-02	-9.109949E-02	1.693063E-05
155.00	1.016384E-01	8.286144E-02	-9.177068E-02	1.573147F-05
156.00	1.015112E-01	8.413562E-02	-9.241600E-02	1.456745E-05
157.00	1.013890E-01	8.536915E-02	-9.303465E-02	1.344044E-05
158.00	1.012718E-01	8.656020E-02	-9.362741E-02	1.236114E-05
159.00	1.011597E-01	8.770738E-02	-9.419360E-02	1.130102E-05
160.00	1.010527E-01	8.880974E-02	-9.473363E-02	1.029129F-05
161.00	1.009508E-01	8.986601E-02	-9.524727E-02	9.323134E-06
162.00	1.008640E-01	9.087604E-02	-9.573458E-02	8.397671E-06
163.00	1.007624E-01	9.183577E-02	-9.619556E-02	7.515973E-06
164.00	1.006759E-01	9.274716E-02	-9.663022E-02	6.679062E-06
165.00	1.005945E-01	9.360825E-02	-9.703853E-02	5.887908E-06
166.00	1.005184E-01	9.441811E-02	-9.742651E-02	5.143420E-06
167.00	1.004474E-01	9.517589E-02	-9.777614E-02	4.446482F-06
168.00	1.003817E-01	9.588079E-02	-9.810543E-02	3.797070E-06
169.00	1.003212E-01	9.653207E-02	-9.840838E-02	3.198365E-06
170.00	1.002659E-01	9.712902E-02	-9.868490E-02	2.646680E-06
171.00	1.002158E-01	9.767103E-02	-9.893524E-02	2.149331E-06
172.00	1.001710E-01	9.815753E-02	-9.915916E-02	1.701022E-06
173.00	1.001314E-01	9.858800E-02	-9.935672E-02	1.304228E-06
174.00	1.000971E-01	9.896199E-02	-9.952795E-02	9.594091E-07
175.00	1.000681E-01	9.927911E-02	-9.967263E-02	6.669624F-07
176.00	1.000444E-01	9.953903E-02	-9.979137E-02	4.272259E-07
177.00	1.000259E-01	9.974147E-02	-9.988357E-02	2.404765E-07
178.00	1.000127E-01	9.988622E-02	-9.994942E-02	1.069299E-07
179.00	1.000047E-01	9.997313E-02	-9.998894E-02	2.674019E-08
180.00	1.000021E-01	1.000021E-01	-1.000021E-01	0.

TABLE E9. NORMALIZED PHASE MATRIX FOR AITKEN PARTICLES, MODEL 30, λ=0.70μ

M=1.50-0.001

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.322033E-01	1.322033E-01	1.322033E-01	2.689504E-18
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2.00	1.321949E-01	1.320373E-01	1.321161E-01	3.483160E-08
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4.00	1.321699E-01	1.315405E-01	1.318548E-01	1.391509E-07
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6.00	1.321283E-01	1.337153E-01	1.314199E-01	3.124324E-07
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8.00	1.320781E-01	1.295661E-01	1.308121E-01	5.538032E-07
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10.00	1.319954E-01	1.280991E-01	1.300326E-01	8.620477E-07
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12.00	1.319044E-01	1.263218E-01	1.290829E-01	1.235614E-06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14.00	1.317971E-01	1.242436E-01	1.279647E-01	1.672621E-06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16.00	1.316738E-01	1.218756E-01	1.266800E-01	2.170871E-06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18.00	1.315347E-01	1.192299E-01	1.252313E-01	2.727857E-06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20.00	1.313798E-01	1.163288E-01	1.236211E-01	3.340779E-06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24.00	1.310242E-01	1.097728E-01	1.199287E-01	4.721850E-06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28.00	1.306091E-01	1.023679E-01	1.156295E-01	6.286391E-06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
32.00	1.301371E-01	9.425879E-02	1.107545E-01	8.003873E-06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
36.00	1.296109E-01	8.561127E-02	1.053382E-01	9.837583E-06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40.00	1.290337E-01	7.660079E-02	9.941864E-02	1.175332E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
44.00	1.284089E-01	6.740824E-02	9.303654E-02	1.371216E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
48.00	1.277402E-01	5.821606E-02	8.623514E-02	1.567520E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
52.00	1.270313E-01	4.920409E-02	7.905962E-02	1.760357E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
56.00	1.262865E-01	4.054590E-02	7.155663E-02	1.945923E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60.00	1.255097E-01	3.240516E-02	6.377307E-02	2.120560E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
64.00	1.247054E-01	2.493232E-02	5.575958E-02	2.280871E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
68.00	1.238779E-01	1.826178E-02	4.756216E-02	2.423708E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
72.00	1.230317E-01	1.250936E-02	3.922970E-02	2.546310E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
76.00	1.221713E-01	7.776305E-03	3.080962E-02	2.646716E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80.00	1.213011E-01	4.110169E-03	2.234835E-02	2.721821E-05
82.00	1.208637E-01	2.716246E-03	1.811641E-02	2.749922E-05
84.00	1.204256E-01	1.603075E-03	1.389095E-02	2.771485E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
88.00	1.195492E-01	2.520665E-04	5.408903E-03	2.794161E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
92.00	1.186762E-01	6.075949E-05	-2.040173E-03	2.789710E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SCATTERING ANGLE	I1	I2	I3	I4
96.00	1.178109E-01	1.033956E-03	-1.103268E-02	2.758203E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100.00	1.169573E-01	3.106615E-03	-1.905922E-02	2.700315E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
104.00	1.161194E-01	6.225214E-03	-2.688468E-02	2.617231E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
108.00	1.153010E-01	1.030947E-02	-3.447633E-02	2.510617E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
112.00	1.145059E-01	1.526234E-02	-4.180383E-02	2.382594E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
116.00	1.137374E-01	2.097229E-02	-4.883927E-02	2.235640E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120.00	1.129989E-01	2.731571E-02	-5.555713E-02	2.072680E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
124.00	1.122935E-01	3.415940E-02	-6.193421E-02	1.896942E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
128.00	1.116241E-01	4.136362E-02	-6.794458E-02	1.711535E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
132.00	1.109935E-01	4.878395E-02	-7.358440E-02	1.520327E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
136.00	1.104042E-01	5.627471E-02	-7.882222E-02	1.326885E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140.00	1.098584E-01	6.369120E-02	-8.364805E-02	1.134910E-05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
144.00	1.093583E-01	7.049220E-02	-8.804986E-02	9.480619E-06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
148.00	1.089057E-01	7.774236E-02	-9.201403E-02	7.698929E-06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
151.00	1.085966E-01	8.257281E-02	-9.462575E-02	6.440047E-06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
153.00	1.084095E-01	8.56[illegible]70E-02	-9.634251E-02	5.645171E-06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155.00	1.082333E-01	8.850868E-02	-9.787[illegible]53E-02	4.890214E-06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
157.00	1.080699E-01	9.122954E-02	-9.929335E-02	4.178747E-06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
159.00	1.079197E-01	9.376894E-02	-1.005958E-01	3.514134E-06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
161.00	1.077827E-01	9.611535E-02	-1.017820E-01	2.899512E-06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
163.00	1.076590E-01	9.825818E-02	-1.028513E-01	2.337785E-06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
165.00	1.075468E-01	1.001678E-01	-1.038031E-01	1.831600E-06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
167.00	1.074522E-01	1.018955E-01	-1.046370E-01	1.383344E-06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
169.00	1.073692E-01	1.033737E-01	-1.053525E-01	9.951293E-07
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
171.00	1.073000E-01	1.046157E-01	-1.059493E-01	6.687848E-07
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
173.00	1.072445E-01	1.056168E-01	-1.064271E-01	4.058465E-07
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
175.00	1.072028E-01	1.063782E-01	-1.067857E-01	2.075529E-07
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
177.00	1.071750E-01	1.068748E-01	-1.070249E-01	7.483641E-08
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
179.00	1.071611E-01	1.071277E-01	-1.071444E-01	8.321682E-09
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

TABLE E10. NORMALIZED PHASE MATRIX FOR AITKEN PARTICLES, MODEL 30, λ=0.85μ

M=1.50-0.001

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.280385E-01	1.280335E-01	1.280385E-01	2.056841E-10
1.00	1.280371E-01	1.279987E-01	1.280173E-01	2.322459E-09
2.00	1.280330E-01	1.278793E-01	1.279561E-01	1.328569E-08
3.00	1.280261E-01	1.276804E-01	1.278531E-01	3.907727E-08
4.00	1.280164E-01	1.274025E-01	1.277091E-01	5.307650E-08
5.00	1.280040E-01	1.270457E-01	1.275239E-01	8.285444E-08
6.00	1.279888E-01	1.266105E-01	1.272978E-01	1.191740E-07
7.00	1.279709E-01	1.260976E-01	1.270300E-01	1.619097E-07
8.00	1.279503E-01	1.255075E-01	1.267230E-01	2.112484E-07
9.00	1.279269E-01	1.248413E-01	1.263746E-01	2.668885E-07
10.00	1.279008E-01	1.240991E-01	1.259836E-01	3.288407E-07
11.00	1.278721E-01	1.232826E-01	1.255563E-01	3.970277E-07
12.00	1.278406E-01	1.223925E-01	1.250869E-01	4.713645E-07
13.00	1.278064E-01	1.214301E-01	1.245775E-01	5.517504E-07
14.00	1.277695E-01	1.203966E-01	1.240283E-01	6.381093E-07
15.00	1.277300E-01	1.192932E-01	1.234395E-01	7.303096E-07
16.00	1.276878E-01	1.181215E-01	.228115E-01	8.282443E-07
17.00	1.276430E-01	1.168829E-01	1.221445E-01	9.317914E-07
18.00	1.275956E-01	1.155789E-01	1.214387E-01	1.040822E-06
19.00	1.275455E-01	1.142114E-01	1.206944E-01	1.155200E-06
20.00	1.274929E-01	1.127819E-01	1.199120E-01	1.274784E-06
22.00	1.273800E-01	1.097447E-01	1.182340E-01	1.529965E-06
24.00	1.272570E-01	1.064828E-01	1.164074E-01	1.802100E-06
26.00	1.271241E-01	1.030129E-01	1.144352E-01	2.092032E-06
28.00	1.269814E-01	9.935246E-02	1.123206E-01	2.399714E-06
30.00	1.268292E-01	9.552013E-02	1.100670E-01	2.724221E-06
32.00	1.266677E-01	9.153526E-02	1.076780E-01	3.055758E-06
34.00	1.264971E-01	8.741792E-02	1.051576E-01	3.401664E-06
36.00	1.263177E-01	8.318880E-02	1.025096E-01	3.757223E-06
38.00	1.261297E-01	7.886908E-02	9.973620E-02	4.120675E-06
40.00	1.259333E-01	7.448030E-02	9.684803E-02	4.490219E-06
42.00	1.257289E-01	7.004427E-02	9.384337E-02	4.864027E-06
44.00	1.255166E-01	6.558296E-02	9.072895E-02	5.240251E-06
46.00	1.252969E-01	6.111034E-02	8.750960E-02	5.617074E-06
48.00	1.250701E-01	5.667232E-02	8.419025E-02	5.992516E-06
50.00	1.248363E-01	5.226659E-02	8.077595E-02	6.364848E-06
52.00	1.245960E-01	4.792253E-02	7.727185E-02	6.732197E-06
54.00	1.243495E-01	4.366169E-02	7.368321E-02	7.092759E-06
56.00	1.240970E-01	3.950271E-02	7.001535E-02	7.444754E-06
58.00	1.238391E-01	3.546717E-02	6.627367E-02	7.786406E-06
60.00	1.235759E-01	3.157355E-02	6.246364E-02	6.116219E-06
62.00	1.233078E-01	2.784889E-02	5.859074E-02	8.432399E-06
64.00	1.230353E-01	2.428410E-02	5.466053E-02	8.733464E-06
66.00	1.227586E-01	2.092194E-02	5.067858E-02	9.017946E-06
68.00	1.224781E-01	1.776886E-02	4.665046E-02	9.284461E-06
70.00	1.221942E-01	1.433980E-02	4.250176E-02	9.531710E-06
72.00	1.219072E-01	1.214527E-02	3.847808E-02	9.758517E-06
74.00	1.216176E-01	9.699355E-03	3.434497E-02	9.963785E-06
76.00	1.213257E-01	7.511669E-03	3.010798E-02	1.014647E-05
78.00	1.210320E-01	5.591050E-03	2.601263E-02	1.030977E-05
80.00	1.207364E-01	3.945311E-03	2.182438E-02	1.044089E-05
82.00	1.204397E-01	2.580622E-03	1.762865E-02	1.055119E-05
84.00	1.201423E-01	1.501782E-03	1.343082E-02	1.063616E-05
86.00	1.198444E-01	7.121560E-04	9.236174E-03	1.069540E-05
88.00	1.195464E-01	2.136669E-04	5.049941E-03	1.072864E-05
90.00	1.192476E-01	6.799425E-06	8.772693E-04	1.073575E-05
92.00	1.189516E-01	9.051103E-05	-3.276779E-03	1.071671E-05
94.00	1.186555E-01	4.627403E-04	-7.407233E-03	1.067164E-05
96.00	1.183608E-01	1.119476E-03	-1.150921E-02	1.060077E-05
98.00	1.180678E-01	2.066699E-03	-1.557705E-02	1.050448E-05
100.00	1.177765E-01	3.205007E-03	-1.960877E-02	1.038325E-05
102.00	1.174883E-01	4.737713E-03	-2.359111E-02	1.023769E-05
104.00	1.172025E-01	6.470906E-03	-2.753852E-02	1.006852E-05
106.00	1.169198E-01	8.448600E-03	-3.142868E-02	9.876598E-06
108.00	1.166404E-01	1.066129E-02	-3.526336E-02	9.662857E-06
110.00	1.163648E-01	1.309704E-02	-3.903648E-02	9.428356E-06
112.00	1.160932E-01	1.574250E-02	-4.275007E-02	9.174245E-05
114.00	1.158260E-01	1.858354E-02	-4.639427E-02	8.901771E-06
116.00	1.155634E-01	2.160515E-02	-4.996737E-02	8.612264E-06
118.00	1.153057E-01	2.479161E-02	-5.346546E-02	8.307137E-06
120.00	1.150533E-01	2.812648E-02	-5.688603E-02	7.987875E-06
122.00	1.148063E-01	3.159273E-02	-6.022474E-02	7.656831E-06
124.00	1.145652E-01	3.517283E-02	-6.347883E-02	7.313215E-06
126.00	1.143300E-01	3.884480E-02	-6.664066E-02	6.961088E-06
128.00	1.141012E-01	4.260233E-02	-6.972059E-02	6.601353E-06
130.00	1.138789E-01	4.641465E-02	-7.213262E-02	6.235749E-06
132.00	1.136634E-01	5.026760E-02	-7.558818E-02	5.866041E-06
134.00	1.134548E-01	5.414147E-02	-7.837496E-02	5.494018E-06
136.00	1.132535E-01	5.801652E-02	-8.106043E-02	5.121448E-06
138.00	1.130597E-01	6.187912E-02	-8.364225E-02	4.750146E-06
140.00	1.128735E-01	6.570498E-02	-8.611819E-02	4.381690E-06
142.00	1.126951E-01	6.947748E-02	-8.848617E-02	4.018447E-06
144.00	1.125248E-01	7.317958E-02	-9.074420E-02	3.661559E-06
146.00	1.123626E-01	7.679275E-02	-9.289442E-02	3.312937E-06
148.00	1.122088E-01	8.030022E-02	-9.492308E-02	2.974250E-06
150.00	1.120636E-01	8.368545E-02	-9.684054E-02	2.647119E-06
151.00	1.119942E-01	8.532723E-02	-9.775559E-02	2.488378E-06
152.00	1.119270E-01	8.693205E-02	-9.864127E-02	2.333187E-06
153.00	1.118620E-01	8.849952E-02	-9.949741E-02	2.181493E-06
154.00	1.117993E-01	9.002631E-02	-1.003238E-01	2.033716E-06
155.00	1.117387E-01	9.151114E-02	-1.011204E-01	1.849952E-06
156.00	1.116804E-01	9.295228E-02	-1.018869E-01	1.750373E-06
157.00	1.116244E-01	9.434806E-02	-1.026233E-01	1.615146E-06
158.00	1.115707E-01	9.569685E-02	-1.033294E-01	1.484432E-06
159.00	1.115192E-01	9.699708E-02	-1.040050E-01	1.358387E-06
160.00	1.114701E-01	9.824725E-02	-1.046500E-01	1.237151E-06
161.00	1.114233E-01	9.944591E-02	-1.052644E-01	1.120898E-06
162.00	1.113788E-01	1.005917E-01	-1.058479E-01	1.009779E-06
163.00	1.113366E-01	1.016832E-01	-1.064005E-01	9.036123E-07
164.00	1.112968E-01	1.027193E-01	-1.069221E-01	8.032475E-07
165.00	1.112594E-01	1.036987E-01	-1.074125E-01	7.081632E-07
166.00	1.112243E-01	1.046202E-01	-1.078717E-01	6.186727E-07
167.00	1.111916E-01	1.054829E-01	-1.082997E-01	5.342825E-07
168.00	1.111613E-01	1.062858E-01	-1.086962E-01	4.560924E-07
169.00	1.111334E-01	1.070278E-01	-1.090613E-01	3.847952E-07
170.00	1.111080E-01	1.077082E-01	-1.093949E-01	3.186768E-07
171.00	1.110849E-01	1.083262E-01	-1.096969E-01	2.566157E-07
172.00	1.110642E-01	1.088811E-01	-1.099672E-01	2.046634E-07
173.00	1.110459E-01	1.093721E-01	-1.102059E-01	1.569442E-07
174.00	1.110301E-01	1.097989E-01	-1.104128E-01	1.154547E-07
175.00	1.110167E-01	1.101608E-01	-1.105879E-01	8.026441E-08
176.00	1.110057E-01	1.104575E-01	-1.107313E-01	5.141580E-08
177.00	1.109972E-01	1.106886E-01	-1.108428E-01	2.894105E-08
178.00	1.109911E-01	1.108539E-01	-1.109225E-01	1.286907E-08
179.00	1.109875E-01	1.109531E-01	-1.109703E-01	3.218224E-09
180.00	1.109862E-01	1.109862E-01	-1.109862E-01	0.

APPENDIX F.

Normalized Phase Matrices for Fog Particles

TABLE F1. NORMALIZED PHASE MATRIX FOR FOG, MODEL 1, λ=0.40μ

M=1.343-0.0001I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	2.777323E+03	2.777323E+03	2.777323E+03	-2.020977E-12
.20	2.017672E+03	2.016830E+03	2.016953E+03	-1.711781E+00
.40	8.414119E+02	8.410690E+02	8.412267E+02	-2.903903E+00
.60	2.052455E+02	2.050464E+02	2.051050E+02	-1.942267E+00
.80	1.102964E+02	1.101425E+02	1.102000E+02	-9.710913E-01
1.00	5.186434E+01	5.179746E+01	5.181555E+01	-4.267141E-01
1.20	2.878916E+01	2.872142E+01	2.874356E+01	-2.210033E-01
1.40	1.730715E+01	1.730520E+01	1.734654E+01	-1.452988E-01
1.60	1.211658E+01	1.203731E+01	1.206841E+01	-9.876859E-02
1.80	8.706939E+00	8.642821E+00	8.667519E+00	-5.683823E-02
2.00	6.485220E+00	6.421985E+00	6.447268E+00	-3.7[illegible]E-02
2.20	5.045317E+00	4.969834E+00	5.002849E+00	[illegible]E-02
2.40	4.034406E+00	3.964510E+00	3.994225E+00	-3.133107E-02
2.60	3.303759E+00	3.247491E+00	3.273922E+00	-1.996677E-02
2.80	2.774224E+00	2.716417E+00	2.741862E+00	-1.418972E-02
3.00	2.365819E+00	2.313121E+00	2.335676E+00	-1.463432E-02
3.20	2.066824E+00	2.020871E+00	2.040087E+00	-1.203423E-02
3.40	1.824217E+00	1.764370E+00	1.800550E+00	-7.129171E-03
3.60	1.631724E+00	1.590971E+00	1.607840E+00	-8.142280E-03
3.80	1.476442E+00	1.434205E+00	1.451898E+00	-1.178588E-02
4.00	1.350417E+00	1.312903E+00	1.332334E+00	-1.844398E-02
4.20	1.257640E+00	1.214349E+00	1.233077E+00	-6.594684E-03
4.40	1.170350E+00	1.127491E+00	1.146176E+00	-4.864309E-03
4.60	1.097574E+00	1.057565E+00	1.074708E+00	-3.365202E-03
4.80	1.036934E+00	9.980035E-01	1.014980E+00	-3.364991E-03
5.00	9.846718E-01	9.466152E-01	9.630079E-01	-3.126924E-03
5.20	9.343693E-01	9.031250E-01	9.164801E-01	-4.312360E-03
5.40	8.946006E-01	8.684537E-01	8.769450E-01	-2.923214E-03
5.60	8.589706E-01	8.358960E-01	8.450812E-01	-3.635627E-04
5.80	8.245479E-01	8.022201E-01	8.136402E-01	-1.333303E-03
6.00	8.045780E-01	7.742704E-01	7.871917E-01	-3.098143E-03
6.20	7.815986E-01	7.546707E-01	7.658184E-01	-3.767583E-03
6.40	7.600438E-01	7.359214E-01	7.457919E-01	-2.480374E-03
6.60	7.396443E-01	7.158576E-01	7.256741E-01	-1.392651E-03
6.80	7.203930E-01	6.972095E-01	7.067109E-01	-8.734564E-04
7.00	7.038808E-01	6.807652E-01	6.903845E-01	-1.816922E-03
7.20	6.906260E-01	6.667849E-01	6.777472E-01	-1.457030E-03
7.40	6.774182E-01	6.600121E-01	6.667754E-01	-9.168873E-04
7.60	6.645947E-01	6.477170E-01	6.561072E-01	-5.259043E-04
7.80	6.531246E-01	6.323637E-01	6.408376E-01	-6.399463E-05
8.00	6.413819E-01	6.208482E-01	6.293651E-01	-7.410043E-04
8.20	6.314117E-01	6.144044E-01	6.211409E-01	-1.014902E-03
8.40	6.232003E-01	6.077137E-01	6.136898E-01	-4.089411E-05
8.60	6.134040E-01	5.974204E-01	6.037198E-01	5.752293E-04
8.80	6.012496E-01	5.878802E-01	5.928098E-01	-4.097195E-04
9.00	5.946816E-01	5.807924E-01	5.838828E-01	-1.218480E-03
9.20	5.838452E-01	5.753603E-01	5.779707E-01	-6.094385E-04
9.40	5.801785E-01	5.693737E-01	5.732585E-01	-8.847863E-04
9.60	5.756819E-01	5.605777E-01	5.664259E-01	-1.009971E-03
9.80	5.671277E-01	5.519650E-01	5.578440E-01	-2.053203E-03
10.00	5.542493E-01	5.459125E-01	5.509103E-01	-2.345085E-03
12.00	5.004578E-01	4.975655E-01	4.975721E-01	-2.804458E-03
14.00	4.495502E-01	4.484301E-01	4.474809E-01	-1.426073E-04
16.00	4.052230E-01	4.093795E-01	4.057560E-01	1.463332E-03
18.00	3.642436E-01	3.675690E-01	3.644168E-01	-1.343180E-03
20.00	3.239949E-01	3.328711E-01	3.267585E-01	1.481335E-04
22.00	2.907780E-01	2.992426E-01	2.933107E-01	5.368607E-04
24.00	2.564162E-01	2.647786E-01	2.687970E-01	-3.102921E-04
26.00	2.201872E-01	2.307708E-01	2.316311E-01	1.749213E-04
28.00	1.990563E-01	2.141293E-01	2.046277E-01	1.482153E-04
30.00	1.770435E-01	1.909129E-01	1.819964E-01	-2.680015E-04
32.00	1.535676E-01	1.680337E-01	1.585718E-01	1.539697E-03
34.00	1.361264E-01	1.506693E-01	1.408516E-01	1.298173E-03
36.00	1.184935E-01	1.329894E-01	1.229813E-01	1.542988E-03
38.00	1.025223E-01	1.158352E-01	1.062807E-01	1.366406E-03
40.00	8.915156E-02	1.019502E-01	9.256458E-02	1.663458E-03
42.00	7.652860E-02	8.999979E-02	8.028913E-02	1.670985E-03
44.00	6.494678E-02	7.900637E-02	6.902723E-02	1.168808E-03

SCATTERING ANGLE	I1	I2	I3	I4
46.00	5.580733E-02	6.847892E-02	5.989010E-02	7.299847E-04
48.00	4.777452E-02	5.846625E-02	5.038657E-02	3.913111E-04
50.00	4.087768E-02	5.070453E-02	4.318686E-02	1.742707E-04
52.00	3.550846E-02	4.388419E-02	3.684874E-02	6.980438E-04
54.00	3.029521E-02	3.774337E-02	3.148280E-02	6.738842E-04
56.00	2.583161E-02	3.243377E-02	2.651597E-02	8.463425E-04
58.00	2.165266E-02	2.756020E-02	2.208580E-02	5.711415E-04
60.00	1.823358E-02	2.342773E-02	1.831674E-02	6.392411E-04
62.00	1.492809E-02	1.956221E-02	1.491568E-02	3.951798E-04
64.00	1.275412E-02	1.638709E-02	1.210572E-02	5.384262E-04
66.00	1.069744E-02	1.335324E-02	9.645603E-03	4.247962E-04
68.00	8.879313E-03	1.076579E-02	7.521845E-03	3.659458E-04
70.00	7.554321E-03	8.683181E-03	5.995990E-03	2.476629E-04
72.00	6.352467E-03	6.932758E-03	4.563495E-03	1.543668E-04
74.00	5.656298E-03	5.446089E-03	3.407713E-03	1.653368E-04
76.00	4.674833E-03	4.303476E-03	2.531864E-03	7.889693E-05
78.00	4.174346E-03	3.365340E-03	1.887638E-03	7.814523E-05
80.00	3.690021E-03	2.680268E-03	1.188481E-03	6.748246E-05
82.00	3.292098E-03	2.048357E-03	7.772471E-04	4.952544E-05
84.00	3.136633E-03	1.584676E-03	4.568306E-04	3.116542E-05
86.00	2.863621E-03	1.230433E-03	1.746465E-04	1.612841E-05
88.00	2.466178E-03	1.428443E-03	-1.326119E-05	-3.444581E-05
90.00	2.430333E-03	8.591858E-04	-1.973485E-04	2.180592E-05
92.00	2.276337E-03	7.281143E-04	-2.982763E-04	-2.496613E-05
94.00	2.149664E-03	6.724430E-04	-3.628847E-04	4.623773E-05
96.00	2.134922E-03	4.428627E-04	-4.843467E-04	-4.848757E-05
98.00	1.976274E-03	6.758428E-04	-4.656037E-04	7.457864E-05
100.00	2.452152E-03	6.815781E-04	-4.685835E-04	-3.772123E-05
102.00	1.971400E-03	7.973402E-04	-4.937122E-04	4.874783E-05
104.00	2.163849E-03	8.842487E-04	-4.360183E-04	5.388563E-05
106.00	2.673512E-03	9.889115E-04	-4.547921E-04	3.185845E-05
108.00	2.886873E-03	1.045328E-03	-3.317956E-04	2.254972E-04
110.00	2.216639E-03	1.160274E-03	-2.887326E-04	1.101073E-04
112.00	2.240873E-03	1.418480E-03	-1.935129E-04	1.847693E-04
114.00	2.388817E-03	1.603621E-03	-9.353703E-05	4.339431E-04
116.00	2.484320E-03	1.583485E-03	8.458658E-05	2.730413E-04
118.00	3.044317E-03	1.764549E-03	3.272811E-04	-5.807728E-05
120.00	4.517883E-03	2.068945E-03	9.992486E-04	-9.857312E-05
122.00	6.944915E-03	2.014345E-03	1.759400E-03	8.038392E-04
124.00	7.956391E-03	1.752889E-03	1.303435E-03	1.578427E-03
126.00	6.276247E-03	1.528248E-03	4.688858E-04	1.441887E-03
128.00	3.488765E-03	1.318153E-03	-2.238924E-04	1.865891E-03
130.00	2.695425E-03	1.211783E-03	-6.886269E-04	8.844686E-04
132.00	2.232784E-03	1.071895E-03	-7.398851E-04	6.846851E-04
134.00	2.454618E-03	1.170087E-03	-7.236891E-04	7.488393E-04
136.00	4.381294E-03	1.781672E-03	-4.858579E-04	1.692158E-03
138.00	1.408436E-02	3.058826E-03	1.361508E-03	4.884636E-03
140.00	4.590380E-02	4.681176E-03	7.188679E-03	1.808731E-02
142.00	6.536855E-02	4.238532E-03	1.158989E-02	5.534973E-04
144.00	2.677798E-02	9.366197E-03	6.171783E-03	-4.443386E-03
146.00	2.033441E-02	1.874936E-02	4.697844E-03	8.637971E-04
148.00	1.886458E-02	1.054245E-02	4.272834E-03	9.631583E-04
150.00	1.633165E-02	1.076431E-02	3.416587E-03	1.013444E-03
152.00	1.404568E-02	1.073425E-02	2.711887E-03	4.669548E-04
154.00	1.223136E-02	1.094877E-02	1.915530E-03	5.932745E-04
156.00	1.086776E-02	1.065642E-02	1.263457E-03	8.517444E-04
158.00	9.543431E-03	1.048966E-02	5.742895E-04	5.508328E-04
160.00	8.625167E-03	1.023418E-02	3.618659E-05	5.226423E-04
162.00	8.021611E-03	9.576656E-03	-4.042785E-04	5.858897E-04
164.00	7.438112E-03	9.296971E-03	-7.415236E-04	3.728678E-04
166.00	6.876623E-03	8.828644E-03	-1.064736E-03	4.464311E-04
168.00	6.686355E-03	8.915147E-03	-1.513449E-03	2.382849E-04
170.00	6.137128E-03	9.023796E-03	-1.741239E-03	2.592852E-04
172.00	6.222478E-03	8.993858E-03	-1.749954E-03	3.288581E-04
174.00	6.565339E-03	1.084967E-02	-1.761874E-03	-2.158215E-05
176.00	6.934965E-03	1.182387E-02	-1.226925E-03	3.178711E-04
178.00	1.019521E-02	1.864815E-02	1.715824E-03	-1.883425E-04
180.00	5.437923E-02	5.437923E-02	-5.437923E-02	-3.845176E-16

TABLE F2. NORMALIZED PHASE MATRIX FOR FOG, MODEL 3, λ=0.6943μ

N=1.330-0.000I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	[illegible]	[illegible]	[illegible]	[illegible]
1.00	8.100632E+01	8.205674E+01	8.195007E+01	-8.466560E-01
2.00	[illegible]	[illegible]	[illegible]	[illegible]
3.00	3.064304E+00	3.019594E+00	3.036047E+00	-2.421000E-02
4.00	[illegible]	[illegible]	[illegible]	[illegible]
5.00	1.153076E+00	1.114074E+00	1.130357E+00	-6.535938E-03
6.00	[illegible]	[illegible]	[illegible]	[illegible]
7.00	7.806019E-01	7.594903E-01	7.674951E-01	-3.620565E-03
8.00	[illegible]	[illegible]	[illegible]	[illegible]
9.00	6.402314E-01	6.266602E-01	6.311700E-01	-4.207057E-04
10.00	[illegible]	[illegible]	[illegible]	[illegible]
11.00	5.594160E-01	5.517555E-01	5.536320E-01	1.222232E-04
12.00	[illegible]	[illegible]	[illegible]	[illegible]
13.00	4.973447E-01	4.936533E-01	4.936662E-01	-1.970069E-03
14.00	[illegible]	[illegible]	[illegible]	[illegible]
15.00	4.454743E-01	4.445656E-01	4.432012E-01	4.914455E-04
16.00	[illegible]	[illegible]	[illegible]	[illegible]
17.00	3.970050E-01	4.009443E-01	3.976761E-01	2.015604E-04
18.00	[illegible]	[illegible]	[illegible]	[illegible]
19.00	3.524296E-01	3.601040E-01	3.545675E-01	-4.030001E-04
20.00	[illegible]	[illegible]	[illegible]	[illegible]
22.50	2.843272E-01	2.964604E-01	2.885162E-01	5.746306E-04
25.00	[illegible]	[illegible]	[illegible]	[illegible]
27.50	2.053005E-01	2.202901E-21	2.100722E-01	4.927340E-04
30.00	[illegible]	[illegible]	[illegible]	[illegible]
32.50	1.463429E-01	1.620674E-01	1.523505E-01	7.070432E-04
35.00	[illegible]	[illegible]	[illegible]	[illegible]
37.50	1.049151E-01	1.173729E-01	1.005673E-01	1.030200E-03
40.00	[illegible]	[illegible]	[illegible]	[illegible]
42.50	7.230402E-02	8.446757E-02	7.490990E-02	1.084725E-03
45.00	[illegible]	[illegible]	[illegible]	[illegible]
47.50	4.824212E-02	5.845576E-02	5.850554E-02	9.059830E-04
50.00	[illegible]	[illegible]	[illegible]	[illegible]
52.50	3.215136E-02	4.069573E-02	3.390001E-02	8.407403E-04
55.00	[illegible]	[illegible]	[illegible]	[illegible]
57.50	2.107200E-02	2.736479E-02	2.176503E-02	5.200586E-04
60.00	[illegible]	[illegible]	[illegible]	[illegible]
62.50	1.302302E-02	1.759531E-02	1.344109E-02	4.350732E-04
65.00	[illegible]	[illegible]	[illegible]	[illegible]
67.50	9.491377E-03	1.091460E-02	7.847321E-03	3.926200E-04
70.00	[illegible]	[illegible]	[illegible]	[illegible]
72.50	6.199051E-03	6.437563E-03	4.195199E-03	2.716121E-04
75.00	[illegible]	[illegible]	[illegible]	[illegible]
77.50	4.333722E-03	3.665903E-03	2.072242E-03	5.043502E-05
80.00	[illegible]	[illegible]	[illegible]	[illegible]
82.50	3.124402E-03	2.110777E-03	8.802515E-04	6.047506E-05
85.00	[illegible]	[illegible]	[illegible]	[illegible]
87.50	2.576950E-03	1.232179E-03	1.271499E-04	5.612947E-05
90.00	[illegible]	[illegible]	[illegible]	[illegible]
92.50	2.207061E-03	8.453309E-04	-2.515598E-04	1.025540E-05

SCATTERING ANGLE	I1	I2	I3	I4
95.00	[illegible]	[illegible]	[illegible]	[illegible]
97.50	1.990492E-03	7.440826E-04	-3.912479E-04	1.740650E-05
100.00	1.955749E-03	7.607044E-04	-4.677324E-04	7.005150E-05
102.50	2.037535E-03	7.055375E-04	-4.603472E-04	8.304955E-05
105.00	[illegible]	[illegible]	[illegible]	[illegible]
107.50	1.923190E-03	9.912373E-04	-3.621712E-04	8.664306E-05
110.00	[illegible]	[illegible]	[illegible]	[illegible]
112.50	2.090300E-03	1.336694E-03	-2.704930E-04	2.490426E-04
115.00	[illegible]	[illegible]	[illegible]	[illegible]
117.50	2.254005E-03	1.643514E-03	4.035016E-05	2.096709E-04
120.00	[illegible]	[illegible]	[illegible]	[illegible]
122.50	4.070006E-03	1.904631E-03	1.115620E-03	2.619721E-04
125.00	[illegible]	[illegible]	[illegible]	[illegible]
127.50	6.020042E-03	1.935353E-03	1.000432E-03	1.704799E-03
130.00	[illegible]	[illegible]	[illegible]	[illegible]
132.50	5.072300E-03	1.915405E-03	-9.750302E-05	2.009920E-03
135.00	[illegible]	[illegible]	[illegible]	[illegible]
137.50	2.791160E-02	4.020524E-03	4.664601E-03	6.656939E-03
140.00	[illegible]	[illegible]	[illegible]	[illegible]
142.50	3.195256E-02	7.662122E-03	7.743000E-03	-5.261741E-03
145.00	[illegible]	[illegible]	[illegible]	[illegible]
147.50	1.500959E-02	1.301946E-02	3.077707E-03	1.304919E-03
150.00	[illegible]	[illegible]	[illegible]	[illegible]
152.50	1.141946E-02	9.964006E-03	2.200157E-03	8.429567E-04
155.00	[illegible]	[illegible]	[illegible]	[illegible]
156.00	9.644971E-03	9.030561E-03	7.600911E-04	8.795910E-04
157.00	[illegible]	[illegible]	[illegible]	[illegible]
158.00	8.404425E-03	9.320376E-03	5.617359E-04	7.550209E-04
159.00	[illegible]	[illegible]	[illegible]	[illegible]
160.00	8.110645E-03	9.171133E-03	-1.098454E-04	7.270000E-04
161.00	[illegible]	[illegible]	[illegible]	[illegible]
162.00	7.119601E-03	8.510430E-03	-1.060025E-04	4.403212E-04
163.00	[illegible]	[illegible]	[illegible]	[illegible]
164.00	6.656765E-03	8.041493E-03	-8.136000E-04	5.509204E-04
165.00	[illegible]	[illegible]	[illegible]	[illegible]
166.00	6.540693E-03	8.593403E-03	-1.100117E-03	5.422259E-04
167.00	[illegible]	[illegible]	[illegible]	[illegible]
168.00	6.040361E-03	8.577143E-03	-1.120770E-03	2.063304E-04
169.00	[illegible]	[illegible]	[illegible]	[illegible]
170.00	6.090705E-03	9.043620E-03	-1.506310E-03	2.592162E-04
171.00	[illegible]	[illegible]	[illegible]	[illegible]
172.00	6.075018E-03	9.133398E-03	-1.407092E-03	4.551202E-04
173.00	[illegible]	[illegible]	[illegible]	[illegible]
174.00	6.512511E-03	1.051491E-02	-1.436443E-03	3.607502E-04
175.00	[illegible]	[illegible]	[illegible]	[illegible]
176.00	7.650003E-03	1.260060E-02	-6.440203E-04	2.304097E-04
177.00	[illegible]	[illegible]	[illegible]	[illegible]
178.00	1.205121E-02	2.115905E-02	3.141604E-03	5.674473E-04
179.00	[illegible]	[illegible]	[illegible]	[illegible]
180.00	5.008329E-02	5.008329E-02	-5.008329E-02	2.510033E-16

TABLE F3. NORMALIZED PHASE MATRIX FOR FOG, MODEL 1, λ=0.80μ

M=1.328-0.000I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	7.023805E+02	7.[illegible]3805E+02	7.023805E+02	-5.351173E-13
.20	6.473172E+02	6.473499E+02	6.473334E+02	-2.672980E-01
.40	5.087543E+02	5.088624E+02	5.087964E+02	-8.475867E-01
.60	3.461939E+02	3.462840E+02	3.462326E+02	-1.[illegible]5359E+00
.80	2.118653E+02	2.118896E+02	2.118642E+02	-1.3[illegible]449E+00
1.00	1.221891E+02	1.221319E+02	1.221427E+02	-1.138282E+00
1.20	7.154565E+01	7.145014E+01	7.147859E+01	-8.350770E-01
1.40	4.360976E+01	4.358445E+01	4.362833E+01	-5.922947E-01
1.60	2.756919E+01	2.760934E+01	2.762170E+01	-4.157050E-01
1.80	1.872851E+01	1.868481E+01	1.869860E+01	-2.892495E-01
2.00	1.334689E+01	1.330993E+01	1.331401E+01	-2.046766E-01
2.20	9.935732E+00	9.901432E+00	9.905955E+00	-1.510653E-01
2.40	7.638700E+00	7.602591E+00	7.609066E+00	-1.170940E-01
2.60	6.004928E+00	6.030761E+00	6.051445E+00	-9.219452E-02
2.80	4.991089E+00	4.933103E+00	4.952720E+00	-7.415010E-02
3.00	4.158520E+00	4.096312E+00	4.118994E+00	-6.015714E-02
3.20	3.517441E+00	3.460224E+00	3.481169E+00	-4.825600E-02
3.40	3.031199E+00	2.981986E+00	2.999741E+00	-3.850782E-02
3.60	2.640540E+00	2.603709E+00	2.619530E+00	-3.093615E-02
3.80	2.340395E+00	2.295339E+00	2.311509E+00	-2.522100E-02
4.00	2.098754E+00	2.051005E+00	2.068733E+00	-2.150016E-02
4.20	1.905450E+00	1.854629E+00	1.875109E+00	-1.996396E-02
4.40	1.740209E+00	1.687043E+00	1.707972E+00	-1.902200E-02
4.60	1.598463E+00	1.545062E+00	1.566356E+00	-1.764534E-02
4.80	1.478967E+00	1.429250E+00	1.449030E+00	-1.612357E-02
5.00	1.375447E+00	1.332312E+00	1.349846E+00	-1.470942E-02
5.20	1.285004E+00	1.240396E+00	1.262052E+00	-1.300013E-02
5.40	1.209556E+00	1.176977E+00	1.188712E+00	-1.060761E-02
5.60	1.146190E+00	1.115542E+00	1.126461E+00	-8.381303E-03
5.80	1.089445E+00	1.060025E+00	1.070844E+00	-6.700870E-03
6.00	1.039162E+00	1.009999E+00	1.020625E+00	-5.999245E-03
6.20	9.956702E-01	9.662606E-01	9.771770E-01	-5.742106E-03
6.40	9.572210E-01	9.275759E-01	9.386660E-01	-5.692703E-03
6.60	9.217662E-01	8.938374E-01	9.037576E-01	-5.755044E-03
6.80	8.990657E-01	8.629466E-01	8.729168E-01	-6.378554E-03
7.00	8.619779E-01	8.363471E-01	8.458804E-01	-7.481541E-03
7.20	8.373659E-01	8.115741E-01	8.211672E-01	-8.085476E-03
7.40	8.153369E-01	7.887523E-01	7.947956E-01	-8.059140E-03
7.60	7.940910E-01	7.682250E-01	7.783205E-01	-7.223122E-03
7.80	7.766310E-01	7.489143E-01	7.585431E-01	-5.598740E-03
8.00	7.547560E-01	7.302053E-01	7.392303E-01	-2.802129E-03
8.20	7.386719E-01	7.138226E-01	7.216576E-01	-3.193113E-04
8.40	7.210080E-01	6.979630E-01	7.064136E-01	-4.416572E-05
8.60	7.088740E-01	6.846796E-01	6.927783E-01	-1.829704E-03
8.80	6.930757E-01	6.722132E-01	6.801606E-01	-2.492660E-03
9.00	6.811710E-01	6.612690E-01	6.683695E-01	-3.493073E-03
9.20	6.682659E-01	6.512339E-01	6.569381E-01	-3.525563E-03
9.40	6.553160E-01	6.415222E-01	6.463385E-01	-2.753891E-03
9.60	6.432706E-01	6.317773E-01	6.347637E-01	-1.775500E-03
9.80	6.324329E-01	6.215470E-01	6.243595E-01	-1.132323E-03
10.00	6.222957E-01	6.100069E-01	6.140462E-01	-9.953315E-04
12.00	5.430760E-01	5.362022E-01	5.374180E-01	-1.175305E-03
14.00	4.791114E-01	4.770636E-01	4.757772E-01	-2.070051E-04
16.00	4.261252E-01	4.251027E-01	4.235450E-01	-1.998217E-04
18.00	3.700949E-01	3.790910E-01	3.774075E-01	1.402517E-03
20.00	3.364563E-01	3.429025E-01	3.368066E-01	4.732563E-04
22.00	2.956943E-01	3.056531E-01	2.906230E-01	-1.055034E-03
24.00	2.603190E-01	2.702235E-01	2.632806E-01	4.171431E-04
26.00	2.280491E-01	2.484652E-01	2.321420E-01	1.474142E-03
28.00	1.990713E-01	2.138796E-01	2.029306E-01	1.553161E-03
30.00	1.734054E-01	1.865199E-01	1.780007E-01	9.957542E-04
32.00	1.521960E-01	1.669020E-01	1.570925E-01	5.787400E-04
34.00	1.325727E-01	1.457793E-01	1.365200E-01	1.160099E-03
36.00	1.152301E-01	1.282562E-01	1.180456E-01	1.942581E-03
38.00	1.002623E-01	1.124463E-01	1.032282E-01	1.727019E-03
40.00	8.682720E-02	9.885187E-02	8.993356E-02	2.485453E-03
42.00	7.445915E-02	8.662011E-02	7.707120E-02	2.857514E-03
44.00	[illegible]	7.545146E-02	6.658590E-02	4.761486E-03
46.00	5.496439E-02	6.623222E-02	5.734478E-02	1.677398E-03
48.00	4.641824E-02	5.722952E-02	[illegible]	1.312111E-03
50.00	3.900300E-02	4.924346E-02	4.167823E-02	1.113260E-03
52.00	3.425902E-02	4.266221E-02	3.571363E-02	1.122751E-03
54.00	2.890060E-02	3.[illegible]009E-02	3.015280E-02	1.140052E-03
56.00	2.434106E-02	3.126779E-02	2.538562E-02	8.834497E-04
58.00	2.074107E-02	2.644757E-02	2.112823E-02	7.461639E-04
60.00	1.7[illegible]E-02	2.242212E-02	1.765034E-02	6.306462E-04
62.00	1.515085E-02	1.904621E-02	1.465567E-02	6.533294E-04
64.00	1.200073E-02	1.593743E-02	1.241763E-02	5.828350E-04
66.00	1.080141E-02	1.346503E-02	9.439604E-03	5.838624E-04
68.00	9.124705E-03	1.127312E-02	7.960821E-03	4.443041E-04
70.00	7.816129E-03	9.462579E-03	6.537658E-03	3.970863E-04
72.00	6.688135E-03	7.839064E-03	5.209804E-03	3.914965E-04
74.00	5.862310E-03	6.370648E-03	4.062935E-03	3.610442E-04
76.00	5.115936E-03	5.275956E-03	3.163710E-03	2.915752E-04
78.00	4.468504E-03	4.284147E-03	2.385164E-03	1.946340E-04
80.00	3.973493E-03	3.550921E-03	1.863940E-03	1.207849E-04
82.00	3.582190E-03	2.945537E-03	1.390204E-03	1.261901E-04
84.00	3.215993E-03	2.507693E-03	9.408231E-04	4.009672E-05
86.00	3.002053E-03	2.065229E-03	6.007474E-04	7.324662E-05
88.00	2.782576E-03	1.712664E-03	3.663507E-04	1.144017E-04
90.00	2.559894E-03	1.452256E-03	1.560752E-04	8.432825E-05
92.00	2.408239E-03	1.277888E-03	-4.437862E-07	4.584401E-05
94.00	2.334072E-03	1.160111E-03	-1.070153E-04	3.577041E-05
96.00	2.175782E-03	1.101300E-03	-1.924203E-04	6.688337E-05
98.00	2.072342E-03	1.055394E-03	-2.403107E-04	6.326532E-05
100.00	2.022909E-03	1.031750E-03	-2.754567E-04	6.327532E-05
102.00	1.989526E-03	1.010606E-03	-2.986766E-04	9.010149E-05
104.00	2.006659E-03	1.077819E-03	-2.868000E-04	1.337614E-04
106.00	2.025330E-03	1.150191E-03	-3.137902E-04	1.742991E-04
108.00	2.114591E-03	1.262395E-03	-2.878421E-04	2.145616E-04
110.00	2.075035E-03	1.336311E-03	-2.492004E-04	2.766332E-04
112.00	2.047948E-03	1.425614E-03	-2.022661E-04	2.728806E-04
114.00	2.215210E-03	1.519007E-03	-1.479903E-04	2.706010E-04
116.00	2.365219E-03	1.593721E-03	-2.117162E-05	2.813804E-04
118.00	2.807665E-03	1.762871E-03	2.169042E-04	2.063401E-04
120.00	3.749353E-03	1.797998E-03	6.247055E-04	3.149087E-04
122.00	4.833967E-03	1.886254E-03	1.018306E-03	6.526961E-04
124.00	5.962490E-03	1.957864E-03	1.125138E-03	1.138341E-03
126.00	6.360222E-03	1.964499E-03	9.907520E-04	1.685042E-03
128.00	6.224338E-03	2.422581E-03	6.406993E-04	1.977255E-03
130.00	5.997343E-03	2.063652E-03	2.696167E-04	2.176863E-03
132.00	6.347753E-03	2.630747E-03	2.814683E-04	2.759850E-03
134.00	9.393693E-03	3.275700E-03	7.508694E-04	4.249071E-03
136.00	1.741538E-02	4.580053E-03	2.473741E-03	7.036231E-03
138.00	3.260709E-02	5.574236E-03	5.777609E-03	9.906087E-03
140.00	4.714136E-02	4.933676E-03	9.292272E-03	7.770637E-03
142.00	4.216721E-02	5.010792E-03	9.201517E-03	-1.127444E-03
144.00	2.272600E-02	8.613570E-03	5.092506E-03	-4.341909E-03
146.00	1.519632E-02	1.061913E-02	4.011743E-03	-6.055780E-04
148.00	1.343271E-02	1.056660E-02	3.462636E-03	1.127224E-03
150.00	1.334014E-02	1.017515E-02	2.943391E-03	1.323077E-03
152.00	1.205142E-02	9.929470E-03	2.453422E-03	1.258402E-03
154.00	1.087080E-02	1.009037E-02	1.824516E-03	9.979353E-04
156.00	9.865221E-03	1.012674E-02	1.420944E-03	1.089323E-03
158.00	9.028699E-03	9.961355E-03	1.146090E-03	8.997710E-04
160.00	8.665219E-03	9.827034E-03	6.565590E-04	8.953469E-04
162.00	7.890747E-03	9.932137E-03	3.610130E-04	8.174905E-04
164.00	7.310049E-03	1.083350E-02	9.302235E-05	7.243305E-04
166.00	7.166616E-03	1.010902E-02	-2.137223E-04	8.570730E-04
168.00	6.736544E-03	1.022130E-02	-2.504533E-04	6.339119E-04
170.00	7.047025E-03	1.056102E-02	-2.099001E-04	6.269450E-04
172.00	6.841800E-03	1.209667E-02	-8.390106E-05	5.006970E-04
174.00	7.009060E-03	1.352017E-02	3.427710E-04	8.705305E-04
176.00	9.605151E-03	1.743305E-02	2.247542E-03	9.093775E-04
178.00	1.067902E-02	3.200202E-02	9.603069E-03	-3.332504E-04
180.00	5.277535E-02	5.277535E-02	-5.277535E-02	-1.000303E-15

TABLE F4. NORMALIZED PHASE MATRIX FOR FOG, MODEL 2, λ=0.40μ

m=1.343-0.0001I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	4.327853E+03	4.327853E+03	4.327853E+03	-3.108147E-12
.10	3.815410E+03	3.815395E+03	3.815406E+03	-9.590424E-01
.20	2.841497E+03	2.841487E+03	2.841488E+03	-2.890494E+00
.30	1.496613E+03	1.496732E+03	1.496660E+03	-3.442039E+00
.40	7.617140E+02	7.619802E+02	7.618279E+02	-2.957344E+00
.50	3.920224E+02	3.923168E+02	3.921470E+02	-2.079333E+00
.60	2.149683E+02	2.151637E+02	2.150350E+02	-1.350819E+00
.70	1.262173E+02	1.263410E+02	1.262601E+02	-8.566892E-01
.80	8.078907E+01	8.077550E+01	8.072900E+01	-5.692904E-01
.90	5.502370E+01	5.505217E+01	5.502295E+01	-4.053270E-01
1.00	3.922626E+01	3.921913E+01	3.920810E+01	-2.845989E-01
1.20	2.250983E+01	2.249893E+01	2.253009E+01	-1.435529E-01
1.40	1.437235E+01	1.426100E+01	1.430929E+01	-8.143592E-02
1.60	9.782482E+00	9.728285E+00	9.740943E+00	-7.915373E-02
1.80	7.063429E+00	7.017170E+00	7.033800E+00	-5.280944E-02
2.00	5.341813E+00	5.284790E+00	5.307518E+00	-3.698418E-02
2.20	4.177839E+00	4.101483E+00	4.134147E+00	-2.834418E-02
2.40	3.359193E+00	3.298390E+00	3.324439E+00	-1.499929E-02
2.60	2.770895E+00	2.736459E+00	2.753781E+00	-1.773232E-02
2.80	2.350636E+00	2.311159E+00	2.326725E+00	-1.546577E-02
3.00	2.034329E+00	1.984402E+00	2.009961E+00	-9.446248E-03
3.20	1.788387E+00	1.742181E+00	1.762818E+00	-8.863835E-03
3.40	1.592233E+00	1.594219E+00	1.578878E+00	-8.153944E-03
3.60	1.436753E+00	1.403793E+00	1.417236E+00	-7.150304E-03
3.80	1.314357E+00	1.279638E+00	1.293912E+00	-9.804982E-03
4.00	1.210509E+00	1.172640E+00	1.192788E+00	-4.318181E-03
4.20	1.130282E+00	1.090289E+00	1.107063E+00	-2.301573E-03
4.40	1.057180E+00	1.028518E+00	1.040444E+00	-5.309405E-03
4.60	9.994669E-01	9.798498E-01	9.852443E-01	-6.821884E-03
4.80	9.512767E-01	9.259515E-01	9.361048E-01	-3.466570E-03
5.00	9.110556E-01	8.884625E-01	8.933887E-01	-1.748579E-03
5.20	8.747381E-01	8.427881E-01	8.565856E-01	-1.438973E-03
5.40	8.388824E-01	8.121753E-01	8.233984E-01	-1.780434E-03
5.60	8.071885E-01	7.858933E-01	7.941824E-01	-4.121287E-03
5.80	7,839577E-01	7.596528E-01	7.694968E-01	-2.599841E-03
6.00	7.629586E-01	7.415783E-01	7.502927E-01	-1.869364E-03
6.20	7.460424E-01	7.236139E-01	7.320828E-01	-1.457881E-03
6.40	7.264684E-01	7.853114E-01	7.141463E-01	-1.147258E-04
6.60	7.087487E-01	6.872988E-01	6.952789E-01	-1.915889E-03
6.80	6.921467E-01	6.712449E-01	6.798152E-01	-1.710754E-03
7.00	6.790193E-01	6.597174E-01	6.679452E-01	-1.317659E-03
7.20	6.671413E-01	6.502421E-01	6.569496E-01	-1.788913E-03
7.40	6.532872E-01	6.413467E-01	6.457155E-01	-1.913986E-03
7.60	6 411687E-01	6.291692E-01	6.335327E-01	-8.687419E-04
7.80	6.331361E-01	6.166689E-01	6.232215E-01	-4.054015E-04
8.00	6.272937E-01	6.075736E-01	6.157658E-01	-9.272045E-04
8.20	6.171683E-01	6.027758E-01	6.084579E-01	-2.255822E-03
8.40	6.073648E-01	5.972988E-01	6.008162E-01	-1.942458E-03
8.60	6.005451E-01	5.886723E-01	5.938578E-01	-1.128253E-03
8.80	5.934379E-01	5.798444E-01	5.851853E-01	-1.263045E-03
9.00	5.857769E-01	5.705291E-01	5.766228E-01	-5.218563E-04
9.20	5.766852E-01	5.640128E-01	5.688991E-01	5.422698E-04
9.40	5.689804E-01	5.603322E-01	5.629049E-01	4.798599E-04
9.60	5.627728E-01	5.550669E-01	5.574482E-01	-3.595521E-04
9.80	5.590862E-01	5.480701E-01	5.501898E-01	-1.332931E-03
10.00	5.476662E-01	5.408817E-01	5.428843E-01	-8.891247E-04
12.00	4.984927E-01	4.914329E-01	4.929491E-01	1.933043E-04
14.00	4.513645E-01	4.470894E-01	4.482927E-01	-2.696894E-04
16.00	4.045647E-01	4.088499E-01	4.043818E-01	7.984845E-04
18.00	3.631918E-01	3.678830E-01	3.641149E-01	4.420418E-04
20.00	3.240798E-01	3.346517E-01	3.281829E-01	-8.850640E-05
22.00	2.922458E-01	3.079388E-01	2.960666E-01	1.295835E-03
24.00	2.982914E-01	2.809818E-01	2.689898E-01	3.909334E-04
26.00	2.298763E-01	2.423386E-01	2.342851E-01	7.420895E-04
28.00	2.022874E-01	2.189774E-01	2.079428E-01	3.590787E-04
30.00	1.747288E-01	1.900934E-01	1.803788E-01	5.576550E-04
32.00	1.538887E-01	1.678798E-01	1.589878E-01	-1.108573E-04
34.00	1.358515E-01	1.498959E-01	1.398276E-01	3.854786E-04
36.00	1.178928E-01	1.311274E-01	1.219283E-01	1.821899E-04
38.00	1.011989E-01	1.159326E-01	1.056887E-01	3.111662E-04
40.00	8.763379E-02	1.029723E-01	9.248465E-02	8.434112E-04
42.00	7.751198E-02	8.955543E-02	8.889727E-02	1.853696E-03
44.00	6.546186E-02	7.847781E-02	6.939287E-02	7.828141E-04
46.00	5.627791E-02	6.886554E-02	5.987288E-02	1.115172E-03

SCATTERING ANGLE	I1	I2	I3	I4
48.00	4.798873E-02	5.918849E-02	5.088989E-02	9.833449E-04
50.00	4.112838E-02	5.138699E-02	4.337454E-02	8.688817E-04
52.00	3.482122E-02	4.419889E-02	3.659218E-02	8.876472E-04
54.00	2.911944E-02	3.766624E-02	3.074813E-02	6.846754E-04
56.00	2.489375E-02	3.186734E-02	2.589899E-02	2.691518E-04
58.00	2.881935E-02	2.661332E-02	2.128694E-02	2.398793E-04
60.00	1.734887E-02	2.241678E-02	1.749781E-02	1.883888E-04
62.00	1.480812E-02	1.851199E-02	1.431788E-02	2.604718E-04
64.00	1.244298E-02	1.529525E-02	1.157782E-02	2.641868E-04
66.00	1.835914E-02	1.248948E-02	9.205122E-03	1.881158E-04
68.00	8.549982E-03	1.881748E-02	7.132854E-03	1.718114E-04
70.00	7.291452E-03	7.986798E-03	5.477662E-03	2.851886E-04
72.00	6.234108E-03	6.272869E-03	4.138958E-03	2.838921E-04
74.00	5.217984E-03	4.913191E-03	3.073987E-03	1.625238E-04
76.00	4.605321E-03	3.737284E-03	2.289278E-03	6.782513E-05
78.00	3.982912E-03	2.889471E-03	1.508643E-03	5.093259E-05
80.00	3.571492E-03	2.164945E-03	9.980376E-04	7.381989E-05
82.00	3.311164E-03	1.647357E-03	6.847156E-04	4.294198E-05
84.00	3.017432E-03	1.250079E-03	2.728958E-04	3.821918E-05
86.00	2.738711E-03	9.945798E-04	3.195098E-05	-3.014887E-06
88.00	2.482865E-03	7.917667E-04	-1.385879E-04	7.878589E-06
90.00	2.368641E-03	6.453946E-04	-2.732116E-04	4.577428E-05
92.00	2.299738E-03	5.866592E-04	-4.037581E-04	-1.842429E-05
94.00	2.159207E-03	5.043066E-04	-3.968945E-04	4.958393E-05
96.00	2.127202E-03	5.455917E-04	-5.303357E-04	1.469321E-05
98.00	2.073086E-03	5.234585E-04	-5.859142E-04	9.769515E-06
100.00	1.934615E-03	5.919354E-04	-5.437148E-04	8.657470E-05
102.00	1.941285E-03	6.190949E-04	-4.827759E-04	-1.272798E-05
104.00	1.954738E-03	7.292098E-04	-5.172419E-04	9.574325E-05
106.00	2.028207E-03	8.259867E-04	-4.582995E-04	-7.001379E-06
108.00	2.088840E-03	9.777637E-04	-4.329828E-04	1.531657E-04
110.00	2.240325E-03	1.032122E-03	-3.093374E-04	7.215113E-05
112.00	2.106379E-03	1.303538E-03	-2.198551E-04	1.918185E-04
114.00	2.623105E-03	1.279924E-03	-5.628811E-05	1.762185E-04
116.00	2.588588E-03	1.586828E-03	1.817277E-05	2.112216E-04
118.00	2.819781E-03	1.684003E-03	2.108499E-04	2.793824E-04
120.00	4.284495E-03	1.757139E-03	7.289681E-04	-2.161821E-04
122.00	6.663749E-03	2.021998E-03	1.771604E-03	2.758263E-04
124.00	9.528698E-03	1.767571E-03	1.577772E-03	1.344388E-03
126.00	6.329335E-03	1.446040E-03	6.984539E-04	1.387112E-03
128.00	3.675867E-03	1.239961E-03	-1.931274E-04	9.994522E-04
130.00	2.567424E-03	1.040650E-03	-6.608275E-04	6.398389E-04
132.00	2.080841E-03	9.762157E-04	-7.821136E-04	4.738090E-04
133.00	2.027059E-03	1.011600E-03	-8.816841E-04	5.594729E-04
134.00	2.189979E-03	1.071679E-03	-7.247849E-04	5.488695E-04
135.00	2.657340E-03	1.189973E-03	-7.055854E-04	7.986693E-04
136.00	3.748267E-03	1.428934E-03	-4.556994E-04	1.308514E-03
137.00	6.582535E-03	1.949812E-03	1.068146E-04	2.341589E-03
138.00	1.346609E-02	2.837031E-03	1.143809E-03	4.618877E-03
139.00	2.786140E-02	3.897000E-03	4.164792E-03	7.685777E-03
140.00	5.225677E-02	4.701444E-03	8.181539E-03	1.050960E-02
141.00	7.111962E-02	4.158821E-03	1.214492E-02	5.501594E-03
142.00	6.121197E-02	4.554249E-03	1.165202E-02	-3.255543E-03
143.00	3.526528E-02	7.810299E-03	7.099767E-03	-6.567281E-03
144.00	2.367994E-02	1.802197E-02	5.056659E-03	-1.820182E-03
145.00	2.275578E-02	9.850266E-03	4.622413E-03	5.770396E-05
146.00	2.173911E-02	9.996561E-03	4.543912E-03	5.985742E-04
147.00	2.077282E-02	9.676920E-03	4.250566E-03	6.712969E-04
148.00	1.877328E-02	1.813644E-02	3.868824E-03	1.456646E-04
149.00	1.781407E-02	1.033982E-02	3.380984E-03	8.505079E-04
150.00	1.657399E-02	1.005644E-02	3.031729E-03	3.827484E-04
152.00	1.397397E-02	1.026647E-02	2.386372E-03	8.933537E-04
154.00	1.169362E-02	1.816939E-02	1.840389E-03	3.748274E-04
156.00	1.180940E-02	9.831223E-03	7.856188E-04	7.539377E-04
158.00	9.283701E-03	9.994321E-03	1.820721E-04	3.702995E-04
160.00	8.405884E-03	9.819761E-03	-1.035572E-04	7.053995E-04
162.00	7.536704E-03	8.915729E-03	-7.638732E-04	2.390399E-04
164.00	6.623839E-03	8.869644E-03	-1.213514E-03	2.948055E-04
166.00	6.607816E-03	8.288959E-03	-1.683915E-03	4.276774E-04
168.00	6.522380E-03	8.246009E-03	-2.258070E-03	3.712817E-04
170.00	5.869774E-03	7.630767E-03	-2.097514E-03	.1.358513E-04
172.00	6.031014E-03	8.242651E-03	-2.686574E-03	4.277815E-05
174.00	5.880547E-03	8.172768E-03	-2.318773E-03	3.543429E-06
176.00	6.788808E-03	9.594055E-03	-2.408441E-03	1.332639E-04
178.00	8.921755E-03	1.449825E-02	-1.092563E-03	3.252249E-04
180.00	5.903937E-02	5.903937E-02	-5.903937E-02	-9.899866E-16

TABLE F5. NORMALIZED PHASE MATRIX FOR FLG, MODEL 2, λ=0.6943μ

M=1.330-0.0001

SCATTERING ANGLE	I1	I2	I3	I4
0.00	9.290227E+02	9.290227E+02	9.290227E+02	-7.160471E-13
1.00	1.074806E+02	1.073290E+02	1.073893E+02	-1.101324E+00
2.00	1.130061E+01	1.120295E+01	1.124400E+01	-1.524131E-01
3.00	3.660843E+00	3.603092E+00	3.628528E+00	-4.484658E-02
4.00	[illegible]	[illegible]	1.070222E+00	[illegible]
5.00	1.273739E+00	1.238258E+00	1.251794E+00	-7.769253E-03
6.00	9.051161E-01	9.404599E-01	9.672699E-01	-9.664226E-03
7.00	8.263573E-01	7.976911E-01	8.089032E-01	-3.350796E-03
8.00	[illegible]	[illegible]	7.195102E-01	-1.706096E-03
9.00	6.625277E-01	6.419508E-01	6.497350E-01	-1.704680E-03
10.00	[illegible]	[illegible]	[illegible]	[illegible]
11.00	5.698982E-01	5.500744E-01	5.617929E-01	-2.050465E-03
12.00	5.352940E-01	[illegible]	[illegible]	[illegible]
13.00	5.051522E-01	4.991532E-01	5.001283E-01	-1.691349E-03
14.00	4.752320E-01	4.699207E-01	4.705099E-01	-1.005022E-03
15.00	4.488746E-01	4.472027E-01	4.461072E-01	-8.320423E-04
16.00	[illegible]	[illegible]	[illegible]	[illegible]
17.00	3.986614E-01	4.011942E-01	3.980722E-01	7.606615E-04
18.00	3.756390E-01	3.034001E-01	3.775040E-01	[illegible]
19.00	3.539410E-01	3.599549E-01	3.550591E-01	-4.665057E-04
20.00	3.340090E-01	3.402099E-01	3.392904E-01	-1.093659E-03
22.50	2.863273E-01	2.959983E-01	2.892675E-01	4.436627E-04
25.00	[illegible]	[illegible]	[illegible]	[illegible]
27.50	2.062857E-01	2.289682E-01	2.115426E-01	6.445688E-04
30.00	1.743057E-01	1.000969E-01	1.793013E-01	3.773072E-04
32.50	1.473739E-01	1.612188E-01	1.518612E-01	9.755127E-04
35.00	1.248706E-01	1.300235E-01	1.203470E-01	1.570520E-03
37.50	1.042223E-01	1.167358E-01	1.074494E-01	1.783310E-03
40.00	[illegible]	[illegible]	[illegible]	[illegible]
42.50	7.219463E-02	8.390484E-02	7.469661E-02	1.915715E-03
45.00	9.931390E-02	7.040129E-02	6.279923E-02	1.000199E-03
47.50	4.881154E-02	5.980157E-02	5.128563E-02	1.500276E-03
50.00	4.043037E-02	4.940990E-02	4.207705E-02	1.291420E-03
52.50	3.257348E-02	4.128824E-02	3.425791E-02	1.015070E-03
55.00	[illegible]	[illegible]	[illegible]	[illegible]
57.50	2.135690E-02	2.785224E-02	2.212231E-02	9.254039E-04
60.00	1.732419E-02	2.225320E-02	1.740521E-02	[illegible]
62.50	1.412900E-02	1.881477E-02	1.376245E-02	7.463637E-04
65.00	1.129003E-02	1.499199E-02	1.082797E-02	[illegible]
67.50	9.413386E-03	1.131225E-02	8.147225E-03	3.410956E-04
70.00	[illegible]	[illegible]	[illegible]	[illegible]
72.50	6.325132E-03	7.269717E-03	4.677619E-03	2.092935E-04
75.00	5.513603E-03	5.530400E-03	3.403002E-03	[illegible]
77.50	4.540096E-03	4.184508E-03	2.472082E-03	1.458915E-04
80.00	3.933329E-03	3.312999E-03	1.809000E-03	1.397400E-04
82.50	3.446199E-03	2.599436E-03	1.185637E-03	6.052381E-05
85.00	[illegible]	[illegible]	[illegible]	[illegible]
87.50	2.761684E-03	1.675866E-03	3.637236E-04	2.718348E-05
90.00	2.901993E-03	1.394792E-03	1.019270E-04	1.420209E-05
92.50	2.341226E-03	1.133392E-03	-4.822631E-05	2.965454E-05

SCATTERING ANGLE	I1	I2	I3	I4
95.00	2.182084E-03	1.009210E-03	-1.917210E-04	7.729972E-09
97.50	2.116136E-03	9.796094E-04	-3.138689E-04	2.191326E-05
100.00	2.054829E-03	9.173539E-04	-3.203041E-04	9.491085E-05
102.50	1.935431E-03	9.424426E-04	-3.099098E-04	7.660044E-05
105.00	2.025407E-03	1.062060E-03	-3.543070E-04	9.924430E-05
107.50	1.940287E-03	1.187137E-03	-2.763538E-04	1.350344E-04
110.00	2.074007E-03	1.276126E-03	-2.021261E-04	2.052701E-04
112.50	2.129765E-03	1.351403E-03	-1.667341E-04	2.999558E-04
115.00	[illegible]	[illegible]	[illegible]	[illegible]
117.50	2.438344E-03	1.684811E-03	1.444115E-04	2.048414E-04
120.00	3.500036E-03	[illegible]	6.102142E-04	[illegible]
122.50	5.258752E-03	2.003474E-03	1.062293E-03	6.785985E-04
125.00	6.422471E-03	1.050215E-03	1.199610E-03	1.302047E-03
127.50	6.171298E-03	1.985821E-03	7.092816E-04	1.757427E-03
130.00	[illegible]	[illegible]	[illegible]	[illegible]
132.50	5.670734E-03	2.206859E-03	8.527395E-06	2.410650E-03
135.00	1.066690E-02	3.429970E-03	9.754061E-04	4.679909E-03
137.50	2.668616E-02	5.057730E-03	4.449964E-03	8.880098E-03
140.00	4.960967E-02	4.802784E-03	9.504012E-03	7.016469E-03
142.50	3.759470E-02	5.906060E-03	8.536630E-03	-3.746160E-03
145.00	[illegible]	[illegible]	[illegible]	[illegible]
147.50	1.455580E-02	1.041512E-02	3.641446E-03	1.109227E-03
150.00	1.376540E-02	[illegible]	[illegible]	[illegible]
152.50	1.171652E-02	1.015749E-02	2.239965E-03	1.062087E-03
155.00	[illegible]	1.012769E-02	1.499219E-03	[illegible]
156.00	9.938309E-03	1.005549E-02	1.253758E-03	9.606450E-04
157.00	[illegible]	[illegible]	[illegible]	[illegible]
158.00	8.957174E-03	9.976033E-03	8.271867E-04	8.395700E-04
159.00	8.377410E-03	[illegible]	7.350744E-04	7.613075E-04
160.00	8.394437E-03	9.790774E-03	3.634086E-04	7.518811E-04
161.00	8.006597E-03	9.870102E-03	2.667614E-04	[illegible]
162.00	7.586675E-03	9.667526E-03	1.573386E-04	8.040977E-04
163.00	[illegible]	[illegible]	[illegible]	[illegible]
164.00	7.355871E-03	9.829213E-03	-2.177756E-04	6.371077E-04
165.00	6.866266E-03	9.697373E-03	-1.847177E-04	4.128509E-04
166.00	6.724927E-03	9.814633E-03	-3.684837E-04	6.115685E-04
167.00	6.606065E-03	9.540600E-03	-5.423147E-04	5.409479E-04
168.00	6.698948E-03	9.867641E-03	-4.936167E-04	4.886361E-04
169.00	[illegible]	[illegible]	[illegible]	[illegible]
170.00	6.563390E-03	1.023669E-02	-5.219482E-04	5.241445E-04
171.00	6.441957E-03	1.067191E-02	-4.926650E-04	4.244085E-04
172.00	6.484958E-03	1.107686E-02	-3.859558E-04	3.564301E-04
173.00	7.162490E-03	1.166900E-02	-2.730113E-04	5.570052E-04
174.00	7.151117E-03	1.247886E-02	-1.684856E-04	4.276315E-04
175.00	[illegible]	[illegible]	[illegible]	[illegible]
176.00	8.740641E-03	1.644041E-02	1.486168E-03	5.042259E-04
177.00	1.060756E-02	2.053762E-02	3.706497E-03	5.700491E-04
178.00	1.624358E-02	2.984626E-02	8.582409E-03	4.556724E-05
179.00	3.087679E-02	3.087917E-02	9.052472E-03	-1.408759E-03
180.00	5.384792E-02	5.384792E-02	-5.384792E-02	-7.572675E-16

TABLE F6. NORMALIZED PHASE MATRIX FOR FOG, MODEL 2, λ=0.80μ

M=1.328-0.000I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.092956E+03	1.092956E+03	1.092956E+03	-6.501010E-13
.10	1.058674E+03	1.059681E+03	1.058678E+03	-1.251682E-01
.20	9.626872E+02	9.627146E+02	9.627005E+02	-4.561562E-01
.30	8.233460E+02	8.233969E+02	8.233703E+02	-8.796470E-01
.40	6.647505E+02	6.648244E+02	6.647874E+02	-1.263131E+00
.50	5.099232E+02	5.099913E+02	5.099497E+02	-1.507567E+00
.60	3.753667E+02	3.754229E+02	3.753032E+02	-1.577300E+00
.70	2.609022E+02	2.609372E+02	2.609044E+02	-1.497006E+00
.80	1.900020E+02	1.906144E+02	1.905900E+02	-1.327359E+00
.90	1.357565E+02	1.357476E+02	1.357329E+02	-1.125407E+00
1.00	9.011234E+01	9.008745E+01	9.000041E+01	-9.314311E-01
1.20	5.394918E+01	5.389707E+01	5.390471E+01	-6.101231E-01
1.40	3.189985E+01	3.181948E+01	3.184329E+01	-3.991187E-01
1.60	2.061178E+01	2.052214E+01	2.055292E+01	-2.605135E-01
1.80	1.421699E+01	1.414426E+01	1.418054E+01	-1.769928E-01
2.00	1.020166E+01	1.022289E+01	1.024175E+01	-1.221040E-01
2.20	7.824361E+00	7.760242E+00	7.783053E+00	-8.918510E-02
2.40	6.139696E+00	6.067003E+00	6.094904E+00	-6.947470E-02
2.60	4.941585E+00	4.871219E+00	4.898774E+00	-5.389930E-02
2.80	4.088931E+00	4.027782E+00	4.051323E+00	-4.263697E-02
3.00	3.434855E+00	3.381272E+00	3.401940E+00	-3.428757E-02
3.20	2.939966E+00	2.887180E+00	2.907490E+00	-2.788089E-02
3.40	2.567277E+00	2.510251E+00	2.533119E+00	-2.285013E-02
3.60	2.265452E+00	2.205656E+00	2.230333E+00	-2.092637E-02
3.80	2.023394E+00	1.965963E+00	1.989049E+00	-1.910822E-02
4.00	1.824920E+00	1.773055E+00	1.794405E+00	-1.705170E-02
4.20	1.656399E+00	1.610339E+00	1.620920E+00	-1.419487E-02
4.40	1.520174E+00	1.475951E+00	1.495205E+00	-1.149470E-02
4.60	1.406836E+00	1.368800E+00	1.383669E+00	-1.000803E-02
4.80	1.310041E+00	1.272910E+00	1.287416E+00	-8.764009E-03
5.00	1.230665E+00	1.193551E+00	1.208179E+00	-6.695984E-03
5.20	1.161526E+00	1.125570E+00	1.139817E+00	-4.270599E-03
5.40	1.099879E+00	1.065238E+00	1.079513E+00	-2.495759E-03
5.60	1.047122E+00	1.015736E+00	1.024334E+00	-2.154744E-03
5.80	9.999951E-01	9.705503E-01	9.819788E-01	-2.710619E-03
6.00	9.579778E-01	9.306401E-01	9.411478E-01	-3.376107E-03
6.20	9.219644E-01	8.964662E-01	9.061494E-01	-4.221574E-03
6.40	8.904254E-01	8.655975E-01	8.750042E-01	-5.309100E-03
6.60	8.634017E-01	8.377607E-01	8.470061E-01	-6.509105E-03
6.80	8.393526E-01	8.126705E-01	8.230754E-01	-7.120697E-03
7.00	8.159632E-01	7.896800E-01	7.990020E-01	-7.010384E-03
7.20	7.947365E-01	7.680547E-01	7.787700E-01	-6.312750E-03
7.40	7.746570E-01	7.505269E-01	7.599232E-01	-5.301692E-03
7.60	7.561570E-01	7.337070E-01	7.423569E-01	-3.994206E-03
7.80	7.384722E-01	7.181251E-01	7.257009E-01	-2.357014E-03
8.00	7.217210E-01	7.024934E-01	7.095060E-01	-4.142915E-04
8.20	7.067732E-01	6.867578E-01	6.942226E-01	1.402754E-03
8.40	6.941600E-01	6.722729E-01	6.806871E-01	2.010855E-03
8.60	6.826914E-01	6.592683E-01	6.684966E-01	9.016640E-04
8.80	6.715201E-01	6.480359E-01	6.573715E-01	-1.024779E-03
9.00	6.604040E-01	6.390292E-01	6.474231E-01	-2.576475E-03
9.20	6.490416E-01	6.312513E-01	6.378420E-01	-3.212503E-03
9.40	6.373990E-01	6.233273E-01	6.280472E-01	-2.930530E-03
9.60	6.261405E-01	6.146467E-01	6.181409E-01	-2.010105E-03
9.80	6.160925E-01	6.050056E-01	6.085966E-01	-8.452724E-04
10.00	6.075275E-01	5.974894E-01	6.003129E-01	1.330000E-04
12.00	5.394230E-01	5.299734E-01	5.306930E-01	-2.910076E-03
14.00	4.774970E-01	4.713636E-01	4.725996E-01	-1.395763E-04
16.00	4.241070E-01	4.248535E-01	4.227277E-01	-7.080745E-04
18.00	3.781551E-01	3.819112E-01	3.783530E-01	-1.343079E-05
20.00	3.340527E-01	3.409629E-01	3.357319E-01	1.230019E-04
22.00	2.961256E-01	3.040060E-01	2.982073E-01	3.444576E-04
24.00	2.597109E-01	2.711044E-01	2.639974E-01	6.924673E-04
26.00	2.273017E-01	2.422003E-01	2.329139E-01	4.461000E-04
28.00	1.993490E-01	2.141420E-01	2.067016E-01	3.142034E-04
30.00	1.744665E-01	1.892456E-01	1.797517E-01	7.090842E-04
32.00	1.527051E-01	1.659651E-01	1.571066E-01	1.257810E-03
34.00	1.327334E-01	1.460779E-01	1.369007E-01	1.619999E-03
36.00	1.159057E-01	1.280900E-01	1.194733E-01	1.529999E-03
38.00	1.000343E-01	1.137623E-01	1.039501E-01	1.762150E-03
40.00	8.677059E-02	9.869709E-02	8.977732E-02	1.709609E-03
42.00	7.444000E-02	8.645103E-02	7.717910E-02	1.739000E-03
44.00	6.369400E-02	7.576715E-02	6.653735E-02	1.672459E-03
46.00	5.493714E-02	6.520022E-02	5.706415E-02	1.343499E-03

SCATTERING ANGLE	I1	I2	I3	I4
116.00	2.197469E-03	1.505227E-03	-2.146315E-05	2.503202E-04
118.00	2.536922E-03	1.714227E-03	1.046851E-05	2.476964E-04
120.00	3.111227E-03	1.752105E-03	3.969121E-04	1.319456E-04
122.00	4.241602E-03	1.915101E-03	1.011009E-03	2.692114E-04
124.00	5.001500E-03	1.993021E-03	1.323937E-03	8.310892E-04
126.00	6.604779E-03	2.103903E-03	1.262570E-03	1.524740E-03
128.00	6.607982E-03	1.931062E-03	8.031243E-04	1.836982E-03
130.00	5.850471E-03	1.892647E-03	3.921265E-04	2.009435E-03
132.00	5.594203E-03	2.049749E-03	2.506242E-04	2.220798E-03
133.00	6.465305E-03	2.372421E-03	2.477053E-04	2.760852E-03
134.00	7.993695E-03	2.793792E-03	6.165041E-04	3.507230E-03
135.00	1.143613E-02	3.350341E-03	1.205997E-03	4.760191E-03
136.00	1.600054E-02	4.242297E-03	2.453437E-03	6.506232E-03
137.00	2.520621E-02	4.890236E-03	4.226215E-03	8.511054E-03
138.00	3.571559E-02	5.330293E-03	6.412287E-03	9.046315E-03
139.00	4.617206E-02	5.077495E-03	8.997163E-03	9.240613E-03
140.00	5.207298E-02	4.732939E-03	1.050129E-02	6.000106E-03
141.00	4.895421E-02	4.585950E-03	1.037606E-02	4.775922E-04
142.00	3.746153E-02	6.069571E-03	9.509051E-03	-3.925816E-03
143.00	2.557921E-02	8.211311E-03	6.532299E-03	-4.077451E-03
144.00	1.830954E-02	9.873703E-03	4.075976E-03	-2.840979E-03
145.00	1.663047E-02	1.041305E-02	4.366594E-03	-5.041997E-04
146.00	1.544601E-02	1.075025E-02	3.053407E-03	6.269015E-04
147.00	1.490301E-02	1.019764E-02	3.710169E-03	1.210874E-03
148.00	1.475283E-02	9.926149E-03	3.372256E-03	1.201989E-03
149.00	1.370726E-02	1.001637E-02	3.129915E-03	1.050009E-03
150.00	1.330096E-02	9.005716E-03	2.977547E-03	1.110005E-03
152.00	1.194497E-02	9.049127E-03	2.202516E-03	9.021719E-04
154.00	1.052352E-02	9.717135E-03	1.600446E-03	9.301113E-04
156.00	9.433334E-03	9.706005E-03	1.120770E-03	7.444515E-04
158.00	8.662735E-03	9.490025E-03	5.653026E-04	7.320028E-04
160.00	7.947789E-03	9.199034E-03	1.566600E-04	6.130670E-04
162.00	7.240257E-03	8.859622E-03	1.616555E-05	5.642263E-04
164.00	7.036624E-03	8.817267E-03	-3.605197E-04	5.431150E-04
166.00	6.621757E-03	8.959990E-03	-7.093964E-04	5.306219E-04
168.00	6.320132E-03	9.069615E-03	-9.610620E-04	5.085407E-04
170.00	6.379254E-03	9.223233E-03	-9.399270E-04	3.732609E-04
172.00	6.226237E-03	1.002791E-02	-7.329255E-04	4.990050E-04
174.00	6.919604E-03	1.125462E-02	-4.409146E-04	4.660796E-04
176.00	7.965541E-03	1.500025E-02	8.420690E-04	3.567980E-04
178.00	1.403226E-02	2.550915E-02	6.749332E-03	3.116423E-04
180.00	5.373036E-02	5.373036E-02	-5.373036E-02	-9.759277E-16
48.00	4.633770E-02	5.672737E-02	4.059699E-02	1.150749E-03
50.00	3.993225E-02	4.991631E-02	4.167939E-02	1.199133E-03
52.00	3.350530E-02	4.163727E-02	3.409502E-02	8.298957E-04
54.00	2.846411E-02	3.506942E-02	2.961446E-02	1.606379E-03
56.00	2.392917E-02	3.049242E-02	2.481544E-02	5.394566E-04
58.00	2.037344E-02	2.625550E-02	2.372363E-02	8.963996E-04
60.00	1.705325E-02	2.105939E-02	1.719083E-02	5.078852E-04
62.00	1.435342E-02	1.857762E-02	1.419679E-02	6.703160E-04
64.00	1.215122E-02	1.541579E-02	1.152726E-02	4.125765E-04
66.00	1.037601E-02	1.272741E-02	9.330666E-03	5.012309E-04
68.00	8.711965E-03	1.064133E-02	7.410229E-03	3.294311E-04
70.00	7.612377E-03	8.561497E-03	6.010011E-03	2.421314E-04
72.00	6.430072E-03	7.123070E-03	4.722929E-03	3.367360E-04
74.00	5.426669E-03	5.732122E-03	3.508211E-03	9.799420E-05
76.00	4.854653E-03	4.579567E-03	2.805241E-03	1.638003E-04
78.00	4.267544E-03	3.703373E-03	2.085630E-03	2.026043E-04
80.00	3.709450E-03	3.040771E-03	1.497177E-03	8.442039E-05
82.00	3.407371E-03	2.426098E-03	1.094653E-03	2.211298E-05
84.00	3.153473E-03	1.953999E-03	7.995143E-04	8.670514E-05
86.00	2.804923E-03	1.631201E-03	3.965151E-04	8.299750E-05
88.00	2.581790E-03	1.356651E-03	1.001346E-04	2.443794E-05
90.00	2.411360E-03	1.140424E-03	4.745482E-05	-7.054371E-06
92.00	2.325303E-03	1.009777E-03	-1.882575E-04	1.531604E-05
94.00	2.271601E-03	8.949328E-04	-2.146939E-04	2.560529E-05
96.00	2.117626E-03	8.431644E-04	-2.824652E-04	6.849551E-05
98.00	1.971704E-03	8.161576E-04	-3.039144E-04	3.307303E-05
100.00	2.011018E-03	8.395391E-04	-3.302511E-04	6.686125E-05
102.00	1.911159E-03	8.405567E-04	-3.600250E-04	9.014219E-05
104.00	2.007287E-03	9.032560E-04	-4.053307E-04	9.175955E-05
106.00	1.854920E-03	9.798865E-04	-3.575104E-04	1.111610E-04
[illegible]	2.004097E-03	1.003781E-03	-3.324793E-04	1.520019E-04
[illegible]	1.909873E-03	1.100109E-03	-2.997861E-04	1.855989E-04
[illegible]	2.098447E-03	1.316523E-03	-2.675220E-04	2.250448E-04
114.00	2.165132E-03	1.395735E-03	-1.555315E-04	2.770090E-04

TABLE F7. NORMALIZED PHASE MATRIX FOR FOG, MODEL 3, λ=0.40μ

M=1.343-0.0001

SCATTERING ANGLE	I1	I2	I3	I4
0.00	3.996915E+02	3.996915E+02	3.996915E+02	-2.703531E-13
.10	3.954570E+02	3.954609E+02	3.954507E+02	-2.771000E-02
.20	3.830399E+02	3.830526E+02	3.830456E+02	-1.075051E-01
.30	3.632615E+02	3.632903E+02	3.632757E+02	-2.290951E-01
.40	3.373965E+02	3.374444E+02	3.374199E+02	-3.806012E-01
.50	3.072277E+02	3.070963E+02	3.070600E+02	-5.430630E-01
.60	2.738805E+02	2.739774E+02	2.739306E+02	-7.000206E-01
.70	2.396972E+02	2.398039E+02	2.397467E+02	-8.365543E-01
.80	2.060110E+02	2.061312E+02	2.060652E+02	-9.414176E-01
.90	1.741142E+02	1.742423E+02	1.741703E+02	-1.000105E+00
1.00	1.449528E+02	1.450826E+02	1.450073E+02	-1.035012E+00
1.20	9.685320E+01	9.696061E+01	9.689627E+01	-9.835630E-01
1.40	6.274579E+01	6.282757E+01	6.276981E+01	-8.390743E-01
1.60	4.037069E+01	4.041007E+01	4.037140E+01	-6.631567E-01
1.80	2.637489E+01	2.637409E+01	2.635573E+01	-4.989400E-01
2.00	1.778031E+01	1.775752E+01	1.775545E+01	-3.649660E-01
2.20	1.252292E+01	1.247508E+01	1.248300E+01	-2.634091E-01
2.40	9.255613E+00	9.203027E+00	9.215065E+00	-1.890656E-01
2.60	7.170305E+00	7.121066E+00	7.133456E+00	-1.303902E-01
2.80	5.760136E+00	5.722093E+00	5.734400E+00	-1.029307E-01
3.00	4.767394E+00	4.724294E+00	4.735508E+00	-7.020340E-02
3.20	4.024301E+00	3.980437E+00	3.992453E+00	-6.065757E-02
3.40	3.460259E+00	3.414000E+00	3.420341E+00	-4.057246E-02
3.60	3.022241E+00	2.975275E+00	2.990124E+00	-4.008499E-02
3.80	2.669950E+00	2.622187E+00	2.638060E+00	-3.625234E-02
4.00	2.375510E+00	2.331356E+00	2.348034E+00	-3.298667E-02
4.20	2.139241E+00	2.090637E+00	2.108106E+00	-2.977376E-02
4.40	1.945519E+00	1.891570E+00	1.909722E+00	-2.614000E-02
4.60	1.773466E+00	1.724936E+00	1.743721E+00	-2.231915E-02
4.80	1.620672E+00	1.582745E+00	1.600682E+00	-1.870000E-02
5.00	1.505159E+00	1.460705E+00	1.477672E+00	-1.562506E-02
5.20	1.398762E+00	1.356877E+00	1.372744E+00	-1.328650E-02
5.40	1.308525E+00	1.260543E+00	1.283653E+00	-1.169504E-02
5.60	1.230091E+00	1.192156E+00	1.206763E+00	-1.062239E-02
5.80	1.162360E+00	1.124034E+00	1.139021E+00	-9.781725E-03
6.00	1.101834E+00	1.065509E+00	1.079264E+00	-8.915990E-03
6.20	1.049025E+00	1.014110E+00	1.027200E+00	-7.954299E-03
6.40	1.002091E+00	9.692567E-01	9.810152E-01	-6.937964E-03
6.60	9.615357E-01	9.291856E-01	9.413166E-01	-5.911524E-03
6.80	9.242375E-01	8.976122E-01	9.043017E-01	-4.926441E-03
7.00	8.894004E-01	8.593124E-01	8.704157E-01	-4.115900E-03
7.20	8.576645E-01	8.294009E-01	8.390109E-01	-3.668391E-03
7.40	8.292824E-01	8.025520E-01	8.123455E-01	-3.673231E-03
7.60	8.037584E-01	7.779977E-01	7.974715E-01	-3.976740E-03
7.80	7.808837E-01	7.552361E-01	7.646498E-01	-4.250273E-03
8.00	7.597062E-01	7.342671E-01	7.436005E-01	-4.267424E-03
8.20	7.402574E-01	7.152745E-01	7.242607E-01	-4.005495E-03
8.40	7.226613E-01	6.982510E-01	7.065000E-01	-3.686995E-03
8.60	7.053025E-01	6.810990E-01	6.906246E-01	-3.534057E-03
8.80	6.994740E-01	6.693129E-01	6.767437E-01	-3.601004E-03
9.00	6.771000E-01	6.565446E-01	6.634625E-01	-3.761022E-03
9.20	6.640312E-01	6.443659E-01	6.513747E-01	-3.830996E-03
9.40	6.526010E-01	6.325350E-01	6.395065E-01	-3.709477E-03
9.60	6.401874E-01	6.210603E-01	6.276741E-01	-3.417118E-03
9.80	6.279931E-01	6.101050E-01	6.161129E-01	-3.020833E-03
10.00	6.162045E-01	5.997097E-01	6.050932E-01	-2.575543E-03
12.00	5.309862E-01	5.190709E-01	5.227363E-01	-1.460983E-03
14.00	4.664297E-01	4.592601E-01	4.596172E-01	2.067735E-04
16.00	4.132790E-01	4.133316E-01	4.100025E-01	-8.871170E-04
18.00	3.684933E-01	3.710976E-01	3.680003E-01	-3.624435E-04
20.00	3.256619E-01	3.324811E-01	3.276090E-01	-3.333803E-05
22.00	2.902800E-01	2.973681E-01	2.917192E-01	2.566726E-04
24.00	2.574191E-01	2.653349E-01	2.594640E-01	9.046210E-04
26.00	2.278152E-01	2.370000E-01	2.301763E-01	1.183793E-03
28.00	2.002516E-01	2.115466E-01	2.030879E-01	1.791470E-03
30.00	1.758234E-01	1.896436E-01	1.780724E-01	1.687479E-03
32.00	1.532847E-01	1.672923E-01	1.570867E-01	1.542403E-03
34.00	1.342987E-01	1.481206E-01	1.377156E-01	1.235401E-03
36.00	1.173927E-01	1.303586E-01	1.203295E-01	1.514650E-03
38.00	1.021033E-01	1.146181E-01	1.049027E-01	1.500699E-03
40.00	8.912340E-02	1.007351E-01	9.146123E-02	1.601257E-03
42.00	7.677757E-02	8.807665E-02	7.959197E-02	1.643587E-03
44.00	6.671964E-02	7.823403E-02	6.887460E-02	1.714179E-03
46.00	5.722177E-02	6.996674E-02	5.969957E-02	1.689567E-03
48.00	4.923486E-02	6.043500E-02	5.158026E-02	1.583640E-03
50.00	4.232270E-02	5.275190E-02	4.429950E-02	1.405160E-03
52.00	3.653240E-02	4.597307E-02	3.790115E-02	1.109923E-03
54.00	3.126567E-02	3.994065E-02	3.247383E-02	1.123406E-03
56.00	2.690400E-02	3.450719E-02	2.764442E-02	1.113082E-03
58.00	2.319952E-02	2.979789E-02	2.349340E-02	1.017253E-03
60.00	1.975809E-02	2.567022E-02	1.987540E-02	9.083212E-04
62.00	1.690631E-02	2.200310E-02	1.672242E-02	8.910101E-04
64.00	1.439111E-02	1.890073E-02	1.400906E-02	7.411764E-04
66.00	1.235884E-02	1.596944E-02	1.162917E-02	6.322701E-04
68.00	1.067557E-02	1.364206E-02	9.674551E-03	5.614503E-04
70.00	9.133071E-03	1.155098E-02	7.936621E-03	4.607262E-04
72.00	7.890435E-03	9.684547E-03	6.420229E-03	3.704639E-04
74.00	6.815306E-03	8.159560E-03	5.169127E-03	3.155929E-04
76.00	5.864491E-03	6.746921E-03	4.188941E-03	3.577246E-04
78.00	5.177504E-03	5.641912E-03	3.245620E-03	3.442700E-04
80.00	4.599290E-03	4.703567E-03	2.541550E-03	2.975820E-04
82.00	4.126123E-03	3.906262E-03	1.910197E-03	2.836904E-04
84.00	3.793082E-03	3.330557E-03	1.497315E-03	1.984556E-04
86.00	3.465295E-03	2.860630E-03	1.155850E-03	1.629412E-04
88.00	3.212695E-03	2.480566E-03	8.410790E-04	1.583196E-04
90.00	2.955000E-03	2.184134E-03	6.180007E-04	1.543297E-04
92.00	2.746831E-03	1.896750E-03	3.561600E-04	1.703899E-04
94.00	2.610577E-03	1.711003E-03	2.092065E-04	1.653112E-04
96.00	2.475212E-03	1.541540E-03	9.634639E-05	1.408935E-04
98.00	2.424216E-03	1.455469E-03	1.705773E-05	1.805512E-04
100.00	2.403470E-03	1.457300E-03	-4.059937E-05	2.051242E-04
102.00	2.335064E-03	1.439476E-03	-6.610060E-05	2.447479E-04
104.00	2.260810E-03	1.451578E-03	-1.144949E-04	3.142041E-04
106.00	2.274935E-03	1.523234E-03	-1.229684E-04	3.298213E-04
108.00	2.265581E-03	1.628290E-03	-1.747756E-04	2.928782E-04
110.00	2.404523E-03	1.753611E-03	-9.706004E-05	1.680025E-04
112.00	2.766644E-03	1.773160E-03	1.356978E-04	1.296730E-04
114.00	3.431347E-03	1.776370E-03	4.560958E-04	1.898691E-04
116.00	4.322377E-03	1.865998E-03	8.777351E-04	4.502851E-04
118.00	5.260640E-03	1.854972E-03	1.018052E-03	8.965903E-04
120.00	5.915008E-03	1.855304E-03	8.635346E-04	1.302760E-03
122.00	6.016092E-03	1.816093E-03	4.906764E-04	1.577998E-03
124.00	5.647410E-03	1.760503E-03	1.608085E-04	1.655876E-03
126.00	5.085317E-03	1.690034E-03	-1.978067E-04	1.617886E-03
128.00	4.430204E-03	1.659117E-03	-4.799475E-04	1.501279E-03
130.00	4.056970E-03	1.709404E-03	-[illegible].750026E-04	1.504835E-03
132.00	4.173915E-03	1.967264E-03	-6.941924E-04	1.730997E-03
133.00	4.731923E-03	2.155912E-03	-6.341980E-04	2.069169E-03
134.00	5.527041E-03	2.525734E-03	-5.207791E-04	2.522150E-03
135.00	7.091074E-03	2.956975E-03	-3.504847E-04	3.333573E-03
136.00	9.291064E-03	3.536516E-03	2.659277E-05	4.460994E-03
137.00	1.274433E-02	4.191705E-03	6.089055E-04	5.694444E-03
138.00	1.714870E-02	4.974271E-03	1.359445E-03	7.500609E-03
139.00	2.207076E-02	5.467404E-03	2.429162E-03	9.122970E-03
140.00	2.987653E-02	5.794073E-03	3.669564E-03	1.057793E-02
141.00	3.766552E-02	5.614103E-03	5.102697E-03	1.110644E-02
142.00	4.475604E-02	5.178066E-03	6.577760E-03	1.040343E-02
143.00	4.815200E-02	4.519302E-03	7.663593E-03	7.594326E-03
144.00	4.835300E-02	[illegible]	8.241178E-03	3.391404E-03
145.00	4.316739E-02	4.409602E-03	8.149215E-03	-1.008530E-03
146.00	3.466731E-02	6.372341E-03	7.366094E-03	-4.849740E-03
147.00	2.512430E-02	8.792671E-03	5.926617E-03	-6.135099E-03
148.00	1.774003E-02	1.139971E-02	4.631400E-03	-4.846609E-03
149.00	1.350777E-02	1.292525E-02	3.660704E-03	-2.102909E-03
150.00	1.270273E-02	1.350564E-02	3.577209E-03	7.787233E-06
152.00	1.404049E-02	1.231091E-02	3.186394E-03	2.595645E-03
154.00	1.620595E-02	1.159470E-02	3.091045E-03	1.946505E-03
156.00	1.312041E-02	1.196720E-02	2.606321E-03	1.573453E-03
158.00	1.192774E-02	1.210940E-02	2.270251E-03	1.278797E-03
160.00	1.106666E-02	1.206332E-02	1.913627E-03	1.207007E-03
162.00	9.056490E-03	1.255744E-02	1.642027E-03	1.176630E-03
164.00	9.777097E-03	1.274510E-02	1.593070E-03	1.191801E-03
166.00	9.765942E-03	1.332705E-02	1.394755E-03	1.271763E-03
168.00	9.072061E-03	1.400120E-02	1.366217E-03	1.263594E-03
170.00	9.097454E-03	1.466420E-02	1.555540E-03	1.048315E-03
172.00	9.270740E-03	1.624154E-02	2.223015E-03	1.423923E-03
174.00	1.036676E-02	1.572475E-02	3.557169E-03	1.476961E-03
176.00	1.778470E-02	2.678020E-02	7.267510E-03	2.405994E-03
178.00	3.277600E-02	5.187655E-02	2.480670E-02	1.065295E-03
180.00	4.956932E-02	4.956932E-02	-4.956032E-02	-2.072504E-13

TABLE F8. NORMALIZED PHASE MATRIX FOR FOG, MODEL 3, λ=0.6943μ

M=1.350-0.0001

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.354301E+02	1.354301E+02	1.354301E+02	[illegible]
1.00	9.516092E+01	9.520764E+01	9.510286E+01	-3.076962E-01
2.00	3.507410E+01	3.593667E+01	3.509359E+01	-5.065291E-01
3.00	1.041041E+01	1.040751E+01	1.038892E+01	-3.108998E-01
4.00	[illegible]	[illegible]	[illegible]	[illegible]
5.00	2.139152E+00	2.103724E+00	2.109687E+00	-5.133654E-02
6.00	1.479704E+00	1.441002E+00	1.452404E+00	-2.944170E-02
7.00	1.134005E+00	1.105419E+00	1.113130E+00	-1.012185E-02
8.00	9.206020E-01	9.072940E-01	9.119600E-01	[illegible]
9.00	7.990202E-01	7.732603E-01	7.001698E-01	-8.617200E-03
10.00	[illegible]	[illegible]	[illegible]	[illegible]
11.00	6.383593E-01	6.215474E-01	6.256597E-01	-4.894224E-03
12.00	5.931669E-01	5.702017E-01	5.725357E-01	-2.690040E-03
13.00	5.394131E-01	5.267726E-01	5.290405E-01	-2.082437E-03
14.00	5.014049E-01	4.920223E-01	4.929597E-01	-1.299027E-03
15.00	4.669023E-01	4.632098E-01	4.615169E-01	-1.595657E-03
16.00	[illegible]	[illegible]	[illegible]	[illegible]
17.00	4.099940E-01	4.086714E-01	4.058559E-01	-7.717056E-05
18.00	3.951759E-01	3.849090E-01	[illegible]	-1.037106E-03
19.00	3.604836E-01	3.626559E-01	3.584641E-01	-1.717805E-03
20.00	3.380323E-01	3.411430E-01	3.363412E-01	[illegible]
22.50	2.880262E-01	2.924682E-01	2.871431E-01	8.508988E-06
25.00	[illegible]	[illegible]	[illegible]	[illegible]
27.50	2.063805E-01	2.178303E-01	2.085674E-01	2.246080E-03
30.00	1.740450E-01	1.872910E-01	1.774694E-01	1.204000E-03
32.50	1.470660E-01	1.595510E-01	1.500278E-01	1.062094E-03
35.00	1.240110E-01	1.362415E-01	1.262016E-01	2.371400E-03
37.50	1.042214E-01	1.166610E-01	1.065598E-01	1.944732E-03
40.00	[illegible]	[illegible]	[illegible]	[illegible]
42.50	7.331117E-02	8.400521E-02	7.496644E-02	2.135983E-03
45.00	6.090697E-02	7.151401E-02	6.262509E-02	2.119901E-03
47.50	5.060124E-02	6.087409E-02	5.226052E-02	2.079471E-03
50.00	4.247370E-02	5.192109E-02	4.352100E-02	1.900731E-03
52.50	3.550096E-02	4.370440E-02	3.623183E-02	1.651703E-03
55.00	[illegible]	[illegible]	[illegible]	[illegible]
57.50	2.403641E-02	3.124449E-02	2.406682E-02	1.653081E-03
60.00	2.047700E-02	2.634504E-02	2.036406E-02	1.491440E-03
62.50	1.695335E-02	2.194795E-02	1.655676E-02	1.304142E-03
65.00	1.419914E-02	1.862360E-02	1.347014E-02	1.109132E-03
67.50	1.180185E-02	1.539651E-02	1.097553E-02	9.952967E-04
70.00	[illegible]	[illegible]	[illegible]	[illegible]
72.50	8.282731E-03	1.079516E-02	7.132147E-03	7.214575E-04
75.00	7.109555E-03	9.060040E-03	5.749622E-03	6.600930E-04
77.50	6.053600E-03	7.517020E-03	4.448704E-03	5.574265E-04
80.00	[illegible]	[illegible]	3.510097E-03	[illegible]
82.50	4.665053E-03	5.359226E-03	2.729028E-03	3.989248E-04
85.00	[illegible]	[illegible]	[illegible]	[illegible]
87.50	3.686731E-03	3.913692E-03	1.622341E-03	3.504786E-04
90.00	3.301110E-03	3.362931E-03	1.196129E-03	3.449299E-04
92.50	2.964784E-03	2.978340E-03	9.167158E-04	3.269369E-04
95.00	[illegible]	2.491219E-03	[illegible]	3.340223E-04
97.50	2.721015E-03	2.390635E-03	4.532947E-04	3.537357E-04
100.00	2.524530E-03	2.248703E-03	2.643299E-04	3.625359E-04
102.50	2.438500E-03	2.087648E-03	1.433293E-04	3.402883E-04
105.00	2.377342E-03	[illegible]	[illegible]	[illegible]
107.50	2.394303E-03	2.022135E-03	1.023011E-04	3.369158E-04
110.00	2.720969E-03	[illegible]	[illegible]	[illegible]
112.50	3.167876E-03	1.989593E-03	3.726947E-04	4.507650E-04
115.00	[illegible]	[illegible]	[illegible]	[illegible]
117.50	4.384721E-03	1.998775E-03	5.864670E-04	9.551627E-04
120.00	[illegible]	[illegible]	[illegible]	[illegible]
122.50	5.396846E-03	2.203777E-03	3.013070E-04	1.735446E-03
125.00	[illegible]	2.325417E-03	7.194256E-05	2.077412E-03
127.50	6.174142E-03	2.669586E-03	-5.053186E-05	2.591297E-03
130.00	[illegible]	[illegible]	[illegible]	[illegible]
132.50	9.461855E-03	4.231431E-03	2.642949E-04	4.891211E-03
135.00	1.395299E-02	[illegible]	[illegible]	7.104010E-03
137.50	2.137819E-02	6.545022E-03	2.395006E-03	9.836988E-03
140.00	[illegible]	6.577004E-03	4.143690E-03	1.120413E-02
142.50	3.741237E-02	5.481751E-03	6.131015E-03	8.961612E-03
145.00	[illegible]	[illegible]	[illegible]	[illegible]
147.50	2.522898E-02	6.936425E-03	6.130753E-03	-3.248776E-03
150.00	1.307950E-02	1.155007E-02	4.799404E-03	-2.969932E-03
152.50	1.037057E-02	1.395251E-02	3.273334E-03	5.271800E-04
155.00	1.401024E-02	1.332941E-02	2.922466E-03	2.740995E-03
156.00	1.127040E-02	1.325824E-02	2.789514E-03	3.095699E-03
157.00	[illegible]	[illegible]	[illegible]	[illegible]
158.00	1.142546E-02	1.257038E-02	2.754940E-03	2.779193E-03
159.00	1.141035E-02	1.270679E-02	[illegible]	-2.514244E-03
160.00	1.109169E-02	1.285495E-02	2.882655E-03	2.413541E-03
161.00	1.091135E-02	1.301009E-02	2.407055E-03	2.212500E-03
162.00	1.077792E-02	1.324717E-02	2.599926E-03	2.119069E-03
163.00	[illegible]	[illegible]	[illegible]	[illegible]
164.00	1.010187E-02	1.395886E-02	2.677781E-03	1.850787E-03
165.00	[illegible]	[illegible]	2.029621E-03	2.187904E-03
166.00	9.873670E-03	1.514869E-02	3.021716E-03	1.957252E-03
167.00	9.764112E-03	1.579911E-02	3.473628E-03	1.962130E-03
168.00	1.002905E-02	1.607644E-02	3.080364E-03	2.007961E-03
169.00	[illegible]	[illegible]	[illegible]	[illegible]
170.00	1.084938E-02	1.889789E-02	4.028056E-03	2.304287E-03
171.00	1.122900E-02	1.977647E-02	3.957376E-03	2.566116E-03
172.00	1.130910E-02	2.138999E-02	4.991715E-03	2.389685E-03
173.00	1.220955E-02	2.430690E-02	6.921410E-03	[illegible]
174.00	1.440928E-02	2.747044E-02	8.315613E-03	3.118729E-03
175.00	[illegible]	[illegible]	[illegible]	[illegible]
176.00	2.563233E-02	4.469546E-02	1.950338E-02	4.139543E-03
177.00	3.440923E-02	4.777107E-02	-2.539561E-02	-9.119142E-04
178.00	3.720378E-02	2.817750E-02	1.187909E-02	-4.994842E-03
179.00	4.206206E-02	[illegible]	-2.703919E-02	-4.600746E-03
180.00	5.193227E-02	5.193227E-02	-5.193227E-02	-7.948563E-17

TABLE F9. NORMALIZED PHASE MATRIX FOR FOG, MODEL 3, λ=0.80μ

M=1.328-0.0001

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.027183E+02	1.027183E+02	1.027183E+02	-6.716074E-14
.10	1.024698E+02	1.024418E+02	1.024409E+02	-2.419116E-07
.20	1.018179E+02	1.016179E+02	1.016175E+02	-1.357170E-02
.30	1.002407E+02	1.002816E+02	1.002507E+02	-3.016814E-02
.40	9.833380E+01	9.837649E+01	9.837644E+01	-5.264524E-02
.50	9.601686E+01	9.602162E+01	9.601874E+01	-8.078899E-02
.60	9.321752E+01	9.322569E+01	9.322130E+01	-1.125409E-01
.70	9.003218E+01	9.003808E+01	9.002918E+01	-1.481960E-01
.80	8.648399E+01	8.649772E+01	8.649721E+01	-1.867276E-01
.90	8.266429E+01	8.257155E+01	8.264201E+01	-2.258107E-01
1.00	7.855163E+01	7.861369E+01	7.860860E+01	-2.655501E-01
1.20	6.996769E+01	7.002651E+01	7.000867E+01	-3.422479E-01
1.40	6.115799E+01	6.119303E+01	6.118641E+01	-4.097496E-01
1.60	5.246691E+01	5.251164E+01	5.249375E+01	-4.506501E-01
1.80	4.428057E+01	4.432016E+01	4.429665E+01	-4.918106E-01
2.00	3.680135E+01	3.685770E+01	3.681950E+01	-5.044579E-01
2.20	3.031265E+01	3.027085E+01	3.022084E+01	-4.989207E-01
2.40	2.455955E+01	2.461707E+01	2.457388E+01	-4.791316E-01
2.60	1.992966E+01	1.988317E+01	1.984019E+01	-4.458395E-01
2.80	1.595514E+01	1.600215E+01	1.596119E+01	-4.060399E-01
3.00	1.291677E+01	1.297507E+01	1.283780E+01	-3.674254E-01
3.20	1.038080E+01	1.038085E+01	1.035609E+01	-3.180307E-01
3.40	8.417790E+00	8.430561E+00	8.407099E+00	-2.757305E-01
3.60	6.898578E+00	6.897156E+00	6.875716E+00	-2.356227E-01
3.80	5.707744E+00	5.700801E+00	5.693585E+00	-1.998057E-01
4.00	4.778672E+00	4.756150E+00	4.756708E+00	-1.682735E-01
4.20	4.058072E+00	4.037620E+00	4.039193E+00	-1.409779E-01
4.40	3.602585E+00	3.457679E+00	3.467067E+00	-1.177157E-01
4.60	3.066666E+00	3.070720E+00	3.010877E+00	-9.830540E-02
4.80	2.600210E+00	2.667640E+00	2.660261E+00	-8.233264E-02
5.00	2.416825E+00	2.396761E+00	2.380807E+00	-6.938079E-02
5.20	2.101726E+00	2.150466E+00	2.167063E+00	-5.400860E-02
5.40	2.002070E+00	1.972615E+00	1.978398E+00	-5.070460E-02
5.60	1.851086E+00	1.816273E+00	1.822063E+00	-4.412507E-02
5.80	1.718773E+00	1.693761E+00	1.690881E+00	-3.878740E-02
6.00	1.697910E+00	1.560626E+00	1.577181E+00	-3.479270E-02
6.20	1.584642E+00	1.450829E+00	1.479656E+00	-3.059039E-02
6.40	1.413476E+00	1.397789E+00	1.302277E+00	-2.754564E-02
6.60	1.360011E+00	1.307719E+00	1.316659E+00	-2.483147E-02
6.80	1.272267E+00	1.261787E+00	1.249722E+00	-2.249664E-02
7.00	1.212057E+00	1.191574E+00	1.109209E+00	-2.048720E-02
7.20	1.159706E+00	1.120842E+00	1.176784E+00	-1.876110E-02
7.40	1.105735E+00	1.090706E+00	1.080142E+00	-1.776191E-02
7.60	1.068087E+00	1.076660E+00	1.043739E+00	-1.543267E-02
7.80	1.076046E+00	9.651766E-01	1.007072E+00	-1.472375E-02
8.00	9.864810E-01	9.696510E-01	9.558104E-01	-1.759067E-02
8.20	9.619925E-01	9.766205E-01	9.711255E-01	-1.256697E-02
8.40	9.292864E-01	8.671806E-01	8.096078E-01	-1.156869E-02
8.60	8.910568E-01	9.647708E-01	8.707167E-01	-1.067006E-02
8.80	9.676780E-01	8.770669E-01	8.461500E-01	-9.992751E-03
9.00	8.707666E-01	8.176542E-01	8.106732E-01	-9.251272E-03
9.20	8.161170E-01	7.611640E-01	7.668735E-01	-8.642956E-03
9.40	7.976179E-01	7.791962E-01	7.765731E-01	-8.150973E-03
9.60	7.720670E-01	7.605670E-01	7.556237E-01	-7.713013E-03
9.80	7.524677E-01	7.171060E-01	7.260028E-01	-7.209706E-03
10.00	7.361567E-01	7.168886E-01	7.107373E-01	-6.881600E-03
12.00	6.607278E-01	5.965690E-01	5.303610E-01	-3.097736E-03
14.00	5.117802E-01	5.072078E-01	5.020000E-01	-2.372600E-03
16.00	4.667085E-01	4.607666E-01	4.388654E-01	-1.142609E-03
18.00	3.497797E-01	3.477465E-01	3.847060E-01	-2.305305E-04
20.00	3.690070E-01	3.442074E-01	3.709776E-01	4.794618E-04
22.00	2.976496E-01	3.013208E-01	2.068657E-01	7.861150E-04
24.00	2.616077E-01	2.690866E-01	2.513756E-01	9.272776E-04
26.00	2.207781E-01	2.171601E-01	2.203037E-01	1.041068E-03
28.00	2.007374E-01	2.121650E-01	2.019165E-01	1.819005E-03
30.00	1.751670E-01	1.860332E-01	1.786721E-01	2.190576E-03
32.00	1.528717E-01	1.561821E-01	1.540067E-01	2.379208E-03
34.00	1.332786E-01	1.651860E-01	1.351106E-01	2.705778E-03
36.00	1.150081E-01	1.370480E-01	1.180664E-01	2.437626E-03
38.00	1.090070E-01	1.125060E-01	1.020600E-01	2.451457E-03
40.00	9.270726E-02	9.511507E-02	8.072510E-02	7.202158E-03
42.00	7.607860E-02	7.720180E-02	7.726787E-02	2.658727E-03
44.00	6.600337E-02	7.572779E-02	6.720535E-02	2.701612E-03
46.00	5.600762E-02	6.727076E-02	5.855672E-02	2.251205E-03

SCATTERING ANGLE	I1	I2	I3	I4
48.00	6.046262E-02	5.516274E-02	5.067645E-02	2.239663E-03
50.00	4.256480E-02	5.172060E-02	4.760248E-02	2.026959E-03
52.00	3.690201E-02	4.642625E-02	3.763049E-02	1.979714E-03
54.00	3.222270E-02	3.907068E-02	3.272467E-02	1.924573E-03
56.00	2.752908E-02	3.467345E-02	2.782652E-02	1.607429E-03
58.00	2.403285E-02	3.056933E-02	2.418566E-02	1.596470E-03
60.00	2.096796E-02	2.660883E-02	2.074070E-02	1.467998E-03
62.00	1.786659E-02	2.316713E-02	1.762176E-02	1.241665E-03
64.00	1.576480E-02	2.051627E-02	1.527283E-02	1.236420E-03
66.00	1.356655E-02	1.764240E-02	1.292919E-02	1.071964E-03
68.00	1.180267E-02	1.466269E-02	1.098742E-02	9.900961E-04
70.00	1.060505E-02	1.359716E-02	9.389356E-03	9.666390E-04
72.00	9.047772E-03	1.171057E-02	7.878265E-03	8.211435E-04
74.00	7.922431E-03	1.018084E-02	6.602654E-03	7.757055E-04
76.00	7.059037E-03	8.642067E-03	5.890666E-03	7.329962E-04
78.00	6.158746E-03	7.785045E-03	4.627244E-03	6.127759E-04
80.00	5.672292E-03	6.778508E-03	3.817456E-03	5.415928E-04
82.00	4.996866E-03	5.693527E-03	3.209614E-03	5.276736E-04
84.00	4.525291E-03	5.263061E-03	2.666640E-03	4.614850E-04
86.00	4.127920E-03	4.667606E-03	2.127796E-03	4.290729E-04
88.00	3.815770E-03	4.128701E-03	1.768681E-03	4.404768E-04
90.00	3.528176E-03	3.693264E-03	1.432282E-03	3.971051E-04
92.00	3.277298E-03	3.369160E-03	1.139260E-03	4.168783E-04
94.00	3.065668E-03	3.072703E-03	8.642013E-04	4.372608E-04
96.00	2.882872E-03	2.795064E-03	6.008777E-04	3.776498E-04
98.00	2.772130E-03	2.646416E-03	5.018762E-04	4.404709E-04
100.00	2.642196E-03	2.431600E-03	3.420937E-04	3.697158E-04
102.00	2.580166E-03	2.336074E-03	2.670074E-04	3.945860E-04
104.00	2.506472E-03	2.290741E-03	2.705148E-04	3.856130E-04
106.00	2.572290E-03	2.172804E-03	2.940955E-04	3.976490E-04
108.00	2.646877E-03	2.199166E-03	2.672208E-04	3.867371E-04
110.00	2.912760E-03	2.156642E-03	3.752671E-04	4.668477E-04
112.00	3.296858E-03	2.156066E-03	4.338700E-04	5.206725E-04
114.00	3.770406E-03	2.092677E-03	4.577740E-04	7.320823E-04
116.00	4.252268E-03	2.174286E-03	5.690087E-04	9.776885E-04
118.00	4.672066E-03	2.127788E-03	5.066701E-04	1.196028E-03
120.00	5.050452E-03	2.207469E-03	4.474699E-04	1.526637E-03
122.00	5.328465E-03	2.313162E-03	3.776830E-04	1.780854E-03
124.00	5.773228E-03	2.490637E-03	1.568716E-04	2.155957E-03
126.00	6.467886E-03	2.760088E-03	3.179079E-05	2.698088E-03
128.00	6.687664E-03	3.168060E-03	4.264178E-05	3.131981E-03
130.00	7.741578E-03	3.775171E-03	7.900279E-05	3.958470E-03
132.00	8.551288E-03	4.557677E-03	3.744666E-04	5.145679E-03
133.00	1.086190E-02	5.015036E-03	5.150752E-04	5.869582E-03
134.00	1.267529E-02	5.557372E-03	6.225658E-04	6.796757E-03
135.00	1.476102E-02	6.067667E-03	1.185019E-03	7.773608E-03
136.00	1.706377E-02	6.426695E-03	1.576026E-03	8.677825E-03
137.00	1.927700E-02	6.791944E-03	2.000172E-03	9.595709E-03
138.00	2.205078E-02	7.092077E-03	2.556916E-03	1.052253E-02
139.00	2.625802E-02	7.104710E-03	3.280426E-03	1.114676E-02
140.00	2.928678E-02	6.956146E-03	3.980512E-03	1.139969E-02
141.00	3.217119E-02	6.507041E-03	4.677150E-03	1.100770E-02
142.00	3.465470E-02	6.019085E-03	5.376906E-03	1.003736E-02
143.00	3.582202E-02	5.553573E-03	6.086107E-03	8.600845E-03
144.00	3.580231E-02	5.091774E-03	6.787814E-03	6.574163E-03
145.00	3.470670E-02	4.819916E-03	6.596287E-03	4.087386E-03
146.00	3.258607E-02	4.597270E-03	6.649615E-03	1.485905E-03
147.00	2.809712E-02	5.680736E-03	6.466777E-03	-8.696657E-04
148.00	2.476414E-02	6.276666E-03	5.863568E-03	-2.556480E-03
149.00	2.919801E-02	8.597676E-03	5.533197E-03	-3.455805E-03
150.00	1.646272E-02	1.036300E-02	4.075482E-03	-3.378700E-03
152.00	1.137606E-02	1.202960E-02	3.747598E-03	-1.505171E-03
154.00	9.077790E-03	1.415623E-02	3.319141E-03	1.139790E-03
156.00	1.067680E-02	1.725476E-02	2.600220E-03	2.779900E-03
158.00	1.113050E-02	1.721227E-02	2.607088E-03	3.212900E-03
160.00	1.172570E-02	1.765080E-02	2.906808E-03	3.101789E-03
162.00	1.176066E-02	1.762778E-02	3.174140E-03	2.598366E-03
164.00	1.070220E-02	1.652212E-02	3.765600E-03	2.450864E-03
166.00	1.056401E-02	1.550579E-02	3.607800E-03	2.025165E-03
168.00	1.080807E-02	1.724070E-02	3.746787E-03	2.262725E-03
170.00	1.141872E-02	2.014978E-02	4.725724E-03	3.267672E-03
172.00	1.201772E-02	2.285276E-02	6.408018E-03	2.950026E-03
174.00	1.771037E-02	3.069164E-02	1.054020E-02	4.170849E-03
176.00	2.027846E-02	4.620188E-02	2.281760E-02	4.079057E-03
178.00	3.087681E-02	2.445726E-02	3.527497E-02	-6.511140E-03
180.00	5.011764E-02	5.011764E-02	-5.011764E-02	-1.470851E-15

TABLE F10. NORMALIZED PHASE MATRIX FOR FOG, MODEL 4, λ=0.40μ

M=1.343-0.000I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	1.027279E+02	1.027279E+02	1.027279E+02	-6.732575E-14
.10	1.024502E+02	1.024506E+02	1.024505E+02	-3.640288E-03
.20	1.016223E+02	1.016235E+02	1.016229E+02	-1.444864E-02
.30	1.002583E+02	1.002608E+02	1.002595E+02	-3.289223E-02
.40	9.838194E+01	9.838592E+01	9.838368E+01	-5.683880E-02
.50	9.602381E+01	9.603855E+01	9.602786E+01	-8.957828E-02
.60	9.322441E+01	9.323399E+01	9.322899E+01	-1.197315E-01
.70	9.002899E+01	9.004168E+01	9.003493E+01	-1.576834E-01
.80	8.644841E+01	8.650442E+01	8.649581E+01	-1.986621E-01
.90	8.267731E+01	8.267692E+01	8.266619E+01	-2.399706E-01
1.00	7.859274E+01	7.861686E+01	7.860305E+01	-2.821881E-01
1.20	6.999485E+01	7.002556E+01	7.000768E+01	-3.631991E-01
1.40	6.114629E+01	6.118375E+01	6.116806E+01	-4.332922E-01
1.60	5.245383E+01	5.249672E+01	5.246910E+01	-4.866750E-01
1.80	4.422542E+01	4.429078E+01	4.426587E+01	-5.280661E-01
2.00	3.677485E+01	3.682562E+01	3.679881E+01	-5.527544E-01
2.20	3.018385E+01	3.023022E+01	3.019359E+01	-5.262545E-01
2.40	2.452694E+01	2.456904E+01	2.453720E+01	-5.037106E-01
2.60	1.979359E+01	1.983113E+01	1.979475E+01	-4.692019E-01
2.80	1.591686E+01	1.594768E+01	1.591316E+01	-4.269667E-01
3.00	1.279711E+01	1.282847E+01	1.278865E+01	-3.889243E-01
3.20	1.032048E+01	1.033617E+01	1.030756E+01	-3.342884E-01
3.40	8.372089E+00	8.381412E+00	8.356268E+00	-2.893980E-01
3.60	6.858382E+00	6.852758E+00	6.830688E+00	-2.477658E-01
3.80	5.663372E+00	5.659613E+00	5.641313E+00	-2.103135E-01
4.00	4.738352E+00	4.729689E+00	4.714574E+00	-1.773210E-01
4.20	4.016719E+00	4.003719E+00	3.991725E+00	-1.488224E-01
4.40	3.452468E+00	3.437569E+00	3.426503E+00	-1.246711E-01
4.60	3.009522E+00	2.989225E+00	2.982982E+00	-1.044391E-01
4.80	2.659673E+00	2.635974E+00	2.632541E+00	-8.783671E-02
5.00	2.388691E+00	2.353689E+00	2.352909E+00	-7.443215E-02
5.20	2.155251E+00	2.125879E+00	2.176992E+00	-6.366910E-02
5.40	1.970887E+00	1.937886E+00	1.941322E+00	-5.585120E-02
5.60	1.815334E+00	1.779748E+00	1.786174E+00	-4.887947E-02
5.80	1.683866E+00	1.646318E+00	1.654588E+00	-4.230921E-02
6.00	1.570753E+00	1.531847E+00	1.541388E+00	-3.738745E-02
6.20	1.472479E+00	1.432861E+00	1.443334E+00	-3.389841E-02
6.40	1.386378E+00	1.346778E+00	1.357779E+00	-2.916227E-02
6.60	1.310579E+00	1.271581E+00	1.282673E+00	-2.565708E-02
6.80	1.243317E+00	1.205213E+00	1.216256E+00	-2.252957E-02
7.00	1.183159E+00	1.146309E+00	1.156998E+00	-1.980869E-02
7.20	1.128828E+00	1.093406E+00	1.103568E+00	-1.749068E-02
7.40	1.079577E+00	1.045428E+00	1.054966E+00	-1.548262E-02
7.60	1.034897E+00	1.001595E+00	1.010858E+00	-1.411579E-02
7.80	9.925375E-01	9.614083E-01	9.695862E-01	-1.298713E-02
8.00	9.544205E-01	9.245649E-01	9.328841E-01	-1.215736E-02
8.20	9.195516E-01	8.908749E-01	8.977793E-01	-1.155827E-02
8.40	8.877387E-01	8.601536E-01	8.665051E-01	-1.111919E-02
8.60	8.587440E-01	8.321746E-01	8.380464E-01	-1.077201E-02
8.80	8.322753E-01	8.066548E-01	8.121267E-01	-1.049531E-02
9.00	8.080991E-01	7.832742E-01	7.884293E-01	-1.011875E-02
9.20	7.858201E-01	7.617144E-01	7.666368E-01	-9.725122E-03
9.40	7.654553E-01	7.419946E-01	7.466428E-01	-9.257910E-03
9.60	7.467703E-01	7.229912E-01	7.276752E-01	-8.719260E-03
9.80	7.273866E-01	7.054378E-01	7.100963E-01	-8.131076E-03
10.00	7.102393E-01	6.889098E-01	6.935038E-01	-7.538240E-03
12.00	5.795574E-01	5.624313E-01	5.661945E-01	-5.543789E-03
14.00	4.926437E-01	4.822857E-01	4.829349E-01	-4.393424E-04
16.00	4.305928E-01	4.223799E-01	4.229372E-01	-7.284366E-04
18.00	3.773750E-01	3.769551E-01	3.730537E-01	-6.629364E-04
20.00	3.328562E-01	3.336690E-01	3.289358E-01	6.511032E-04
22.00	2.938036E-01	2.986626E-01	2.923598E-01	2.412076E-04
24.00	2.592805E-01	2.644864E-01	2.578563E-01	1.009735E-03
26.00	2.277492E-01	2.328234E-01	2.277592E-01	1.878201E-03
28.00	2.004191E-01	2.045384E-01	2.009807E-01	1.849158E-03
30.00	1.754971E-01	1.804779E-01	1.768515E-01	2.359777E-03
32.00	1.532039E-01	1.597409E-01	1.554001E-01	1.883658E-03
34.00	1.343813E-01	1.464016E-01	1.362159E-01	2.187710E-03
36.00	1.171507E-01	1.299677E-01	1.184364E-01	1.637575E-03
38.00	1.022797E-01	1.146937E-01	1.044418E-01	1.858777E-03
40.00	8.946681E-02	1.013439E-01	9.161848E-02	1.886221E-03
42.00	7.786695E-02	8.971822E-02	7.980278E-02	1.658198E-03
44.00	6.799815E-02	7.886303E-02	6.999166E-02	2.026413E-03
46.00	5.928063E-02	6.985009E-02	6.075407E-02	1.312302E-03

SCATTERING ANGLE	I1	I2	I3	I4
48.00	5.158401E-02	6.153728E-02	5.280291E-02	1.262963E-03
50.00	4.484023E-02	5.408115E-02	4.595412E-02	1.918247E-03
52.00	3.904993E-02	4.789689E-02	3.998535E-02	1.849993E-03
54.00	3.397012E-02	4.199665E-02	3.441194E-02	1.726547E-03
56.00	2.942603E-02	3.713758E-02	2.983585E-02	1.876346E-03
58.00	2.558086E-02	3.246879E-02	2.563926E-02	1.531239E-03
60.00	2.221775E-02	2.873778E-02	2.218453E-02	1.574375E-03
62.00	1.927725E-02	2.523188E-02	1.931809E-02	1.443621E-03
64.00	1.684194E-02	2.212381E-02	1.684755E-02	1.347837E-03
66.00	1.462011E-02	1.927779E-02	1.395445E-02	1.251823E-03
68.00	1.276864E-02	1.701728E-02	1.198542E-02	1.115310E-03
70.00	1.114215E-02	1.473914E-02	1.013071E-02	1.089546E-03
72.00	9.784122E-03	1.298349E-02	8.644918E-03	9.687212E-04
74.00	8.580293E-03	1.136749E-02	7.254658E-03	8.917883E-04
76.00	7.696766E-03	9.944544E-03	6.172218E-03	8.097367E-04
78.00	6.785810E-03	8.626188E-03	5.111709E-03	7.418228E-04
80.00	6.018074E-03	7.763494E-03	4.387119E-03	6.999934E-04
82.00	5.379252E-03	6.862572E-03	3.547087E-03	6.876530E-04
84.00	4.828153E-03	5.915665E-03	2.954083E-03	5.596260E-04
86.00	4.436478E-03	5.289236E-03	2.423498E-03	5.743187E-04
88.00	4.072923E-03	4.616087E-03	1.977829E-03	5.065561E-04
90.00	3.710938E-03	4.275010E-03	1.614978E-03	5.164458E-04
92.00	3.567586E-03	3.746769E-03	1.275178E-03	4.986611E-04
94.00	3.296472E-03	3.495499E-03	9.653573E-04	5.079573E-04
96.00	3.118698E-03	3.132788E-03	6.884359E-04	4.897492E-04
98.00	2.917379E-03	3.011798E-03	5.651149E-04	4.359217E-04
100.00	2.867488E-03	2.780523E-03	4.817867E-04	4.556019E-04
102.00	2.758688E-03	2.676153E-03	4.359825E-04	3.977696E-04
104.00	2.985774E-03	2.597689E-03	3.765158E-04	4.397847E-04
106.00	3.026913E-03	2.465189E-03	4.794392E-04	4.285966E-04
108.00	3.409723E-03	2.479913E-03	4.852948E-04	4.192512E-04
110.00	3.787818E-03	2.318891E-03	5.918288E-04	6.644829E-04
112.00	4.252567E-03	2.268679E-03	6.288676E-04	8.327728E-04
114.00	4.694138E-03	2.226438E-03	5.272473E-04	1.089563E-03
116.00	5.069556E-03	2.187456E-03	4.295848E-04	1.389843E-03
118.00	5.342879E-03	2.178803E-03	1.969652E-04	1.588239E-03
120.00	5.284498E-03	2.198552E-03	4.317289E-05	1.685780E-03
122.00	5.298998E-03	2.177419E-03	-2.869213E-04	1.719044E-03
124.00	5.191192E-03	2.231911E-03	-3.836949E-04	1.815833E-03
126.00	5.170964E-03	2.385847E-03	-4.975748E-04	1.912511E-03
128.00	5.304881E-03	2.617417E-03	-6.246754E-04	2.187479E-03
130.00	5.807783E-03	3.073922E-03	-6.382839F-04	2.691495E-03
132.00	6.741667E-03	3.670516E-03	-5.191888E-04	3.326884E-03
134.00	7.653378E-03	4.981583E-03	-3.969153E-04	3.979842E-03
136.00	8.738449E-03	4.447866E-03	-2.252271E-04	4.646139E-03
138.00	1.016481E-02	4.883639E-03	-4.488888E-05	5.375447E-03
136.00	1.196282E-02	5.486352E-03	2.048995E-04	6.353486E-03
137.00	1.424636E-02	6.186888E-03	5.781862E-04	7.541711E-03
138.00	1.709311E-02	6.972129E-03	8.247828E-04	8.889852E-03
139.00	2.021144E-02	6.875572E-03	1.438697E-03	9.719817E-03
140.00	2.361763E-02	7.224625E-03	2.076654E-03	1.082636E-02
141.00	2.742076E-02	7.417899E-03	2.935657E-03	1.166728E-02
142.00	3.117788E-02	7.199657E-03	3.157341E-03	1.194677E-02
143.00	3.457398E-02	6.732151E-03	3.092869E-03	1.163479E-02
144.00	3.739695E-02	6.297469E-03	4.769393E-03	1.094608E-02
145.00	3.913782E-02	5.682593E-03	5.274889E-03	9.329799E-03
146.00	3.939914E-02	5.012118E-03	5.922176E-03	6.843802E-03
147.00	3.809442E-02	4.882346E-03	6.385227E-03	4.228861E-03
148.00	3.551026E-02	5.028486E-03	6.461164E-03	1.578234E-03
149.00	3.157733E-02	5.847218E-03	6.411782E-03	-1.429441E-03
150.00	2.668794E-02	7.497146E-03	6.266283E-03	-5.291036E-03
152.00	1.763287E-02	1.170648E-02	5.278984E-03	-3.842617E-03
154.00	1.213772E-02	1.498846E-02	4.182517E-03	-1.413386E-03
156.00	1.119228E-02	1.611683E-02	3.782128E-03	1.910861E-03
158.00	1.218652E-02	1.618586E-02	3.443114E-03	3.434499E-03
160.00	1.264407E-02	1.561548E-02	3.587816E-03	3.736886E-03
162.00	1.304811E-02	1.570511E-02	3.811648E-03	3.509876E-03
164.00	1.262869E-02	1.678888E-02	4.015634E-03	3.875930E-03
166.00	1.260728E-02	1.758577E-02	4.391241E-03	2.827662E-03
168.00	1.261217E-02	1.998466E-02	5.844633E-03	3.167818E-03
170.00	1.334887E-02	2.282963E-02	5.898436E-03	3.522119E-03
172.00	1.452718E-02	2.699858E-02	6.884867E-03	3.775287E-03
174.00	2.085967E-02	3.670717E-02	1.291899E-02	5.454019E-03
176.00	3.298322E-02	5.469931E-02	2.763489E-02	4.529499E-03
178.00	4.240428E-02	2.877546E-02	6.131274E-03	-7.716928E-03
180.00	5.439891E-02	5.439891E-02	-5.439891E-02	-1.886192E-19

TABLE F11. NORMALIZED PHASE MATRIX FOR FOG, MODEL 4, λ=0.6943μ

M=1.330-0.000I

SCATTERING ANGLE	I1	I2	I3	I4
0.00	3.546602E+01	3.546602E+01	3.546602E+01	-2.303341E-14
1.00	3.233237E+01	3.234312E+01	3.233754E+01	-6.450296E-02
2.00	2.473439E+01	2.476046E+01	2.474696E+01	-1.977100E-01
3.00	1.612373E+01	1.617554E+01	1.614133E+01	-2.075132E-01
4.00	9.311692E+00	9.364072E+00	9.322565E+00	[illegible]
5.00	5.105657E+00	5.143995E+00	5.105127E+00	-2.176764E-01
6.00	2.699734E+00	2.919243E+00	2.000702E+00	-1.430421E-01
7.00	1.823282E+00	1.827045E+00	1.805408E+00	-8.798101E-02
8.00	1.297404E+00	1.291020E+00	1.276449E+00	-5.219400E-02
9.00	1.024356E+00	1.012243E+00	1.003210E+00	-3.134826E-02
10.00	8.612073E-01	[illegible]	8.415447E-01	-2.001349E-02
11.00	7.493724E-01	7.332338E-01	7.314157E-01	-1.367163E-02
12.00	6.677070E-01	6.516105E-01	6.511602E-01	-1.007477E-02
13.00	6.045045E-01	5.898090E-01	5.893935E-01	-6.282204E-03
14.00	5.523391E-01	5.400535E-01	5.387430E-01	-7.277900E-03
15.00	5.072501E-01	4.981153E-01	4.954843E-01	-6.009054E-03
16.00	4.675429E-01	[illegible]	4.579204E-01	[illegible]
17.00	4.325261E-01	4.285837E-01	4.238760E-01	-1.901914E-03
18.00	4.017669E-01	3.989490E-01	3.939725E-01	-5.559909E-04
19.00	3.741501E-01	3.719127E-01	3.668873E-01	-2.768039E-04
20.00	3.400060E-01	3.473543E-01	3.420306E-01	-3.075091E-04
22.50	2.923835E-01	2.961091E-01	2.885957E-01	5.182110E-04
25.00	2.430659E-01	2.517122E-01	2.430415E-01	1.507241E-03
27.50	2.070882E-01	2.148509E-01	2.057032E-01	1.742353E-03
30.00	1.745131E-01	1.839756E-01	1.742726E-01	1.879137E-03
32.50	1.472174E-01	1.573898E-01	1.472864E-01	2.141461E-03
35.00	1.244963E-01	1.345906E-01	1.240100E-01	2.353673E-03
37.50	1.055581E-01	1.156662E-01	1.058966E-01	2.254511E-03
40.00	8.990702E-02	9.895007E-02	8.946000E-02	2.749197E-03
42.50	7.584388E-02	8.521923E-02	7.607211E-02	2.455251E-03
45.00	6.396726E-02	7.326501E-02	6.427161E-02	2.024024E-03
47.50	5.449692E-02	6.304361E-02	5.457923E-02	2.677275E-03
50.00	4.629941E-02	5.450839E-02	4.620047E-02	2.692242E-03
52.50	3.910535E-02	4.695913E-02	3.904081E-02	2.651585E-03
55.00	3.300132E-02	4.002220E-02	3.310320E-02	2.542040E-03
57.50	2.830153E-02	3.523978E-02	2.791696E-02	2.397533E-03
60.00	2.434495E-02	3.030201E-02	2.365331E-02	2.340979E-03
62.50	2.074868E-02	2.649529E-02	1.996569E-02	2.074306E-03
65.00	1.770040E-02	2.287234E-02	1.678249E-02	2.079047E-03
67.50	1.523519E-02	1.998763E-02	1.416497E-02	1.810557E-03
70.00	1.300032E-02	1.727030E-02	1.180443E-02	1.703710E-03
72.50	1.132691E-02	1.513694E-02	9.962152E-03	1.578476E-03
75.00	9.674232E-03	1.314240E-02	8.300500E-03	1.490492E-03
77.50	8.512182E-03	1.152739E-02	6.961122E-03	1.378854E-03
80.00	7.415899E-03	1.011914E-02	5.740082E-03	1.222979E-03
82.50	6.522713E-03	8.854427E-03	4.789949E-03	1.226216E-03
85.00	5.830740E-03	7.874933E-03	3.947947E-03	1.031002E-03
87.50	5.210923E-03	6.966295E-03	3.221042E-03	1.066255E-03
90.00	4.709300E-03	6.211859E-03	2.684096E-03	9.272003E-04
92.50	4.324191E-03	5.615555E-03	2.157422E-03	9.180183E-04
95.00	4.086696E-03	9.844922E-03	1.779321E-03	8.679405E-04
97.50	3.819931E-03	4.628835E-03	1.490498E-03	5.426988E-04
100.00	3.734367E-03	4.241330E-03	1.236085E-03	5.599143E-04
102.50	3.751669E-03	3.948084E-03	1.101584E-03	8.881147E-04
105.00	3.911917E-03	3.654757E-03	9.095048E-04	9.780357E-04
107.50	4.135461E-03	3.498124E-03	8.313398E-04	1.072122E-03
110.00	4.330951E-03	3.260590E-03	6.433154E-04	1.247549E-03
112.50	4.712866E-03	3.220800E-03	4.947416E-04	1.376735E-03
115.00	4.930047E-03	3.145505E-03	2.095241E-04	1.619721E-03
117.50	5.244898E-03	3.167082E-03	1.657783E-04	1.821159E-03
120.00	5.611788E-03	3.341537E-03	-6.534284E-05	2.147254E-03
122.50	5.964492E-03	3.594933E-03	-1.902615E-04	2.514832E-03
125.00	6.601824E-03	4.001434E-03	-2.707600E-04	3.041187E-03
127.50	7.424270E-03	4.637080E-03	-3.089330E-04	3.821576E-03
130.00	8.901300E-03	5.567834E-03	-1.395113E-04	4.927887E-03
132.50	1.095179E-02	6.462895E-03	-1.155806E-05	6.371150E-03
135.00	1.421510E-02	7.590110E-03	4.380981E-04	8.107353E-03
137.50	1.811742E-02	8.612272E-03	7.806311E-04	1.008266E-02
140.00	2.302600E-02	9.841521E-03	1.513033E-03	1.167725E-02
142.50	2.764992E-02	8.887518E-03	2.467235E-03	1.225681E-02
145.00	3.002023E-02	7.927031E-03	3.307295E-03	1.111494E-02
147.50	3.175075E-02	6.991957E-03	4.355044E-03	8.213938E-03
150.00	2.887241E-02	6.003510E-03	5.296774E-03	4.180776E-03
152.50	2.351462E-02	9.756450E-03	5.734620E-03	7.154796E-04
155.00	1.769025E-02	1.171154E-02	5.622426E-03	-5.991083E-04
156.00	1.574723E-02	1.339966E-02	5.611276E-03	-4.970723E-04
157.00	1.404656E-02	1.492239E-02	5.541196E-03	-2.914615E-05
158.00	1.286948E-02	1.618959E-02	5.414825E-03	7.239499E-04
159.00	1.219607E-02	1.766609E-02	5.317905E-03	1.610019E-03
160.00	1.196645E-02	1.763857E-02	5.303489E-03	2.490806E-03
161.00	1.202039E-02	1.864527E-02	5.302363E-03	3.271287E-03
162.00	1.225240E-02	1.949691E-02	5.524195E-03	3.878599E-03
163.00	1.256006E-02	2.020950E-02	5.544050E-03	4.380097E-03
164.00	1.297938E-02	2.101674E-02	5.732231E-03	4.646203E-03
165.00	1.361475E-02	2.180246E-02	5.919002E-03	5.057712E-03
166.00	1.449508E-02	2.312156E-02	6.371172E-03	5.555173E-03
167.00	1.559512E-02	2.494693E-02	7.199060E-03	6.130559E-03
168.00	1.695683E-02	2.753479E-02	8.407086E-03	6.879236E-03
169.00	1.850050E-02	3.077264E-02	9.863149E-03	7.721694E-03
170.00	2.043532E-02	3.437278E-02	1.162476E-02	8.274468E-03
171.00	2.256511E-02	3.817353E-02	1.416353E-02	8.021055E-03
172.00	2.515579E-02	4.183729E-02	1.773933E-02	6.771244E-03
173.00	2.832440E-02	4.472840E-02	2.164265E-02	4.702747E-03
174.00	3.184155E-02	4.580042E-02	2.404479E-02	2.219197E-03
175.00	3.466596E-02	4.284994E-02	2.208001E-02	-1.700047E-03
176.00	3.581162E-02	3.454693E-02	1.204740E-02	-5.628878E-03
177.00	3.690009E-02	2.704606E-02	-6.476420E-03	-8.496802E-03
178.00	4.164563E-02	3.073933E-02	-2.868056E-02	-7.120126E-03
179.00	4.910904E-02	4.477497E-02	-4.634315E-02	-2.561134E-03
180.00	5.297024E-02	5.297024E-02	-5.297024E-02	-8.076217E-17

TABLE F12. NORMALIZED PHASE MATRIX FOR FOG, MODEL 4, λ=0.80μ

M=1.328-0.0001

SCATTERING ANGLE	I1	I2	I3	I4
0.00	2.709977E+01	2.709977E+01	2.709977E+01	-1.662320E-14
.10	2.708107E+01	2.708115E+01	2.708111E+01	-4.462661E-04
.20	2.702580E+01	2.702540E+01	2.702524E+01	-1.781372E-03
.30	2.693203E+01	2.693274E+01	2.693238E+01	-3.994202E-03
.40	2.680234E+01	2.680361E+01	2.680297E+01	-7.066729E-03
.50	2.663660E+01	2.663857E+01	2.663757E+01	-1.097341E-02
.60	2.643553E+01	2.643835E+01	2.643692E+01	-1.560227E-02
.70	2.620003E+01	2.620303E+01	2.620190E+01	-2.119479E-02
.80	2.593114E+01	2.593605E+01	2.593355E+01	-2.734644E-02
.90	2.563001E+01	2.563617E+01	2.563301E+01	-3.420717E-02
1.00	2.529797E+01	2.530540E+01	2.530160E+01	-4.160181E-02
1.20	2.454690E+01	2.455742E+01	2.455192E+01	-5.823040E-02
1.40	2.369057E+01	2.370443E+01	2.369706E+01	-7.647299E-02
1.60	2.274381E+01	2.276043E+01	2.275100E+01	-9.584090E-02
1.80	2.171926E+01	2.174030E+01	2.172872E+01	-1.157751E-01
2.00	2.063490E+01	2.065982E+01	2.064580E+01	-1.356071E-01
2.20	1.950603E+01	1.953452E+01	1.951806E+01	-1.550205E-01
2.40	1.834811E+01	1.838000E+01	1.836114E+01	-1.732708E-01
2.60	1.717637E+01	1.721157E+01	1.719014E+01	-1.899853E-01
2.80	1.600510E+01	1.604321E+01	1.601934E+01	-2.047085E-01
3.00	1.484748E+01	1.488810E+01	1.486189E+01	-2.173831E-01
3.20	1.371531E+01	1.375799E+01	1.372950E+01	-2.275591E-01
3.40	1.261880E+01	1.266315E+01	1.263269E+01	-2.351943E-01
3.60	1.156664E+01	1.161220E+01	1.157992E+01	-2.402516E-01
3.80	1.056623E+01	1.061215E+01	1.057827E+01	-2.427732E-01
4.00	9.622334E+00	9.668315E+00	9.633091E+00	-2.428717E-01
4.20	8.730085E+00	8.784450E+00	8.748149E+00	-2.407194E-01
4.40	7.918182E+00	7.962796E+00	7.925693E+00	-2.365356E-01
4.60	7.160827E+00	7.204233E+00	7.166681E+00	-2.305738E-01
4.80	6.466687E+00	6.508434E+00	6.470539E+00	-2.231883E-01
5.00	5.834270E+00	5.874036E+00	5.836131E+00	-2.144219E-01
5.20	5.261380E+00	5.298828E+00	5.261147E+00	-2.047949E-01
5.40	4.744066E+00	4.779921E+00	4.742682E+00	-1.944946E-01
5.60	4.281514E+00	4.313945E+00	4.277376E+00	-1.837684E-01
5.80	3.867493E+00	3.897192E+00	3.861377E+00	-1.722377E-01
6.00	3.498868E+00	3.525773E+00	3.490889E+00	-1.618026E-01
6.20	3.171649E+00	3.195743E+00	3.161904E+00	-1.510939E-01
6.40	2.881985E+00	2.903207E+00	2.870583E+00	-1.408693E-01
6.60	2.625848E+00	2.644484E+00	2.612905E+00	-1.304166E-01
6.80	2.399863E+00	2.415772E+00	2.385527E+00	-1.207668E-01
7.00	2.200630E+00	2.213986E+00	2.185030E+00	-1.114835E-01
7.20	2.025062E+00	2.035908E+00	2.008342E+00	-1.027740E-01
7.40	1.870367E+00	1.878995E+00	1.852670E+00	-9.450952E-02
7.60	1.734027E+00	1.740580E+00	1.715580E+00	-8.692429E-02
7.80	1.613797E+00	1.618261E+00	1.594501E+00	-7.976799E-02
8.00	1.507679E+00	1.510202E+00	1.487915E+00	-7.310170E-02
8.20	1.413988E+00	1.414798E+00	1.393730E+00	-6.690569E-02
8.40	1.330926E+00	1.330247E+00	1.310461E+00	-6.115726E-02
8.60	1.257360E+00	1.255294E+00	1.236727E+00	-5.583397E-02
8.80	1.192083E+00	1.188605E+00	1.171311E+00	-5.091468E-02
9.00	1.133789E+00	1.129228E+00	1.113137E+00	-4.637066E-02
9.20	1.081783E+00	1.076182E+00	1.061258E+00	-4.220267E-02
9.40	1.035161E+00	1.028637E+00	1.014839E+00	-3.837273E-02
9.60	9.932014E-01	9.858629E-01	9.731439E-01	-3.486691E-02
9.80	9.552727E-01	9.472215E-01	9.355296E-01	-3.167739E-02
10.00	9.208259E-01	9.121572E-01	9.014356E-01	-2.876843E-02
12.00	6.916763E-01	6.806167E-01	6.760505E-01	-1.185776E-02
14.00	5.630938E-01	5.541054E-01	5.506801E-01	-7.228182E-03
16.00	4.745219E-01	4.675377E-01	4.671999E-01	-5.036446E-03
18.00	4.052732E-01	4.013570E-01	3.961115E-01	-2.154279E-03
20.00	3.455918E-01	3.402763E-01	3.422781E-01	-9.853820E-04
22.00	3.027182E-01	3.036194E-01	2.968604E-01	3.783046E-04
24.00	2.634047E-01	2.680777E-01	2.587684E-01	1.316652E-03
26.00	2.288713E-01	2.337056E-01	2.255491E-01	1.544387E-03
28.00	1.993060E-01	2.050243E-01	1.969623E-01	2.257965E-03
30.00	1.739501E-01	1.812292E-01	1.721871E-01	2.690498E-03
32.00	1.521578E-01	1.600829E-01	1.508655E-01	2.[illegible]7632E-03
34.00	1.320297E-01	1.410074E-01	1.321577E-01	2.739200E-03
36.00	1.162448E-01	1.253644E-01	1.157714E-01	3.254410E-03
38.00	1.022396E-01	1.111940E-01	1.010029E-01	3.042315E-03
40.00	8.937181E-02	9.891549E-02	8.932262E-02	3.156851E-03
42.00	7.850848E-02	8.780740E-02	7.846584E-02	3.209449E-03
44.00	6.917727E-02	7.813545E-02	6.902172E-02	3.172383E-03
46.00	6.065618E-02	6.974758E-02	6.067451E-02	3.191141E-03

SCATTERING ANGLE	I1	I2	I3	I4
48.00	5.346263E-02	6.288916E-02	5.331858E-02	3.154495E-03
50.00	4.719476E-02	5.546477E-02	4.695339E-02	3.053046E-03
52.00	4.137128E-02	4.956103E-02	4.121164E-02	2.984772E-03
54.00	3.662088E-02	4.430753E-02	3.627176E-02	2.897449E-03
56.00	3.236507E-02	3.962480E-02	3.189078E-02	2.786775E-03
58.00	2.847743E-02	3.540995E-02	2.798711E-02	2.636118E-03
60.00	2.519625E-02	3.184780E-02	2.460494E-02	2.593487E-03
62.00	2.241064E-02	2.844091E-02	2.160306E-02	2.436838E-03
64.00	1.974816E-02	2.565791E-02	1.896047E-02	2.289345E-03
66.00	1.794725E-02	2.295852E-02	1.659969E-02	2.276654E-03
68.00	1.565764E-02	2.060286E-02	1.457873E-02	2.075051E-03
70.00	1.387683E-02	1.863636E-02	1.275616E-02	2.008859E-03
72.00	1.240737E-02	1.665971E-02	1.111056E-02	1.926151E-03
74.00	1.113785E-02	1.507694E-02	9.745895E-03	1.801467E-03
76.00	9.946482E-03	1.361085E-02	8.474774E-03	1.708071E-03
78.00	8.998989E-03	1.270439E-02	7.369625E-03	1.630895E-03
80.00	8.131133E-03	1.113047E-02	6.410914E-03	1.537370E-03
82.00	7.336658E-03	1.012155E-02	5.567554E-03	1.457490E-03
84.00	6.719568E-03	9.194627E-03	4.816135E-03	1.380131E-03
86.00	6.136168E-03	8.392489E-03	4.157178E-03	1.311567E-03
88.00	5.611284E-03	7.701880E-03	3.615693E-03	1.267808E-03
90.00	5.206231E-03	7.070050E-03	3.129219E-03	1.202379E-03
92.00	4.859508E-03	6.529471E-03	2.693755E-03	1.153654E-03
94.00	4.572983E-03	6.017142E-03	2.361021E-03	1.166743E-03
96.00	4.352016E-03	5.578816E-03	2.079145E-03	1.111722E-03
98.00	4.235136E-03	5.245499E-03	1.807215E-03	1.124828E-03
100.00	4.214908E-03	4.870583E-03	1.594185E-03	1.174069E-03
102.00	4.198264E-03	4.595989E-03	1.429476E-03	1.181952E-03
104.00	4.270867E-03	4.360783E-03	1.235517E-03	1.262227E-03
106.00	4.460676E-03	4.135949E-03	1.064232E-03	1.355157E-03
108.00	4.580421E-03	3.950897E-03	9.826339E-04	1.447053E-03
110.00	4.750452E-03	3.861754E-03	7.374257E-04	1.567257E-03
112.00	4.991266E-03	3.725254E-03	5.514893E-04	1.705614E-03
114.00	5.132983E-03	3.716547E-03	3.973910E-04	1.859863E-03
116.00	5.331559E-03	3.716634E-03	2.434115E-04	2.030823E-03
118.00	5.591930E-03	3.787719E-03	8.193769E-05	2.261275E-03
120.00	5.831685E-03	3.965964E-03	-5.198843E-05	2.571213E-03
122.00	6.161880E-03	4.195109E-03	-1.680948E-04	2.867538E-03
124.00	6.652770E-03	4.572581E-03	-2.432522E-04	3.319136E-03
126.00	7.259358E-03	5.068141E-03	-3.291213E-04	3.891796E-03
128.00	8.149833E-03	5.655642E-03	-3.273602E-04	4.626925E-03
130.00	9.337226E-03	6.376901E-03	-2.208977E-04	5.546265E-03
132.00	1.083850E-02	7.217183E-03	-1.575534E-04	6.687894E-03
133.00	1.182832E-02	7.642319E-03	-7.464627E-05	7.339759E-03
134.00	1.308841E-02	8.053581E-03	6.863213E-05	7.997658E-03
135.00	1.420293E-02	8.479378E-03	2.397515E-04	8.713076E-03
136.00	1.559101E-02	8.931679E-03	3.834111E-04	9.463201E-03
137.00	1.694480E-02	9.346360E-03	5.010405E-04	1.020551E-02
138.00	1.846320E-02	9.637732E-03	6.691385E-04	1.089805E-02
139.00	2.019866E-02	9.807094E-03	9.149646E-04	1.151850E-02
140.00	2.198930E-02	9.935377E-03	1.236608E-03	1.206067E-02
141.00	2.368654E-02	1.005371E-02	1.547159E-03	1.250860E-02
142.00	2.525407E-02	1.008097E-02	1.817100E-03	1.281473E-02
143.00	2.675471E-02	9.926283E-03	2.100111E-03	1.290426E-02
144.00	2.817096E-02	9.607856E-03	2.463671E-03	1.272957E-02
145.00	2.937808E-02	9.224974E-03	2.908596E-03	1.230743E-02
146.00	3.024621E-02	8.844337E-03	3.374110E-03	1.165293E-02
147.00	3.070370E-02	8.473104E-03	3.898588E-03	1.078005E-02
148.00	3.073631E-02	8.123218E-03	4.217990E-03	9.674034E-03
149.00	3.036518E-02	7.855218E-03	4.671076E-03	8.371114E-03
150.00	2.960084E-02	7.754286E-03	5.036603E-03	6.955760E-03
152.00	2.685271E-02	8.244124E-03	5.758080E-03	4.152511E-03
154.00	2.303416E-02	9.674448E-03	6.249061E-03	1.808325E-03
156.00	1.910175E-02	1.215369E-02	6.552739E-03	6.974462E-04
158.00	1.578825E-02	1.500439E-02	6.598721E-03	7.827877E-04
160.00	1.394236E-02	1.781027E-02	6.589436E-03	1.854017E-03
162.00	1.332638E-02	2.036464E-02	6.622920E-03	3.168855E-03
164.00	1.386779E-02	2.296121E-02	6.898449E-03	4.569406E-03
166.00	1.595565E-02	2.643572E-02	8.088818E-03	6.471137E-03
168.00	1.950733E-02	3.262574E-02	1.075270E-02	8.802939E-03
170.00	2.442889E-02	4.104723E-02	1.520699E-02	1.036854E-02
172.00	2.976350E-02	4.714459E-02	2.168895E-02	7.157265E-03
174.00	3.376217E-02	4.496808E-02	2.355180E-02	-8.694633E-04
176.00	3.528008E-02	3.010435E-02	3.352628E-03	-8.969701E-03
178.00	4.474508E-02	3.615688E-02	-3.584614E-02	-6.720253E-02
180.00	5.596479E-02	5.596479E-02	-5.596479E-02	-1.245565E-15

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